Mio™
Digi Walker

C720t

User's Manual

R02 (USA)

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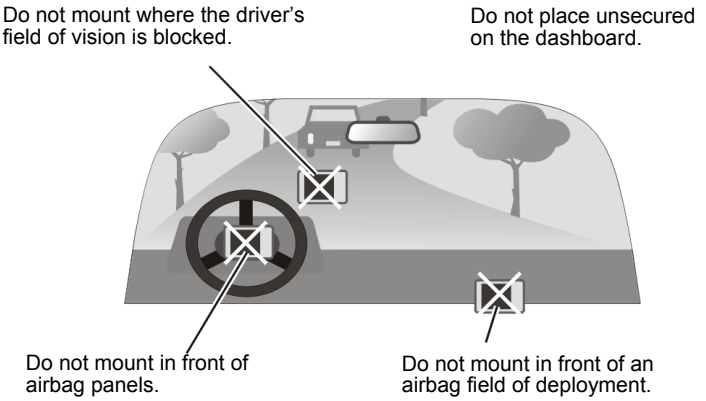
Precautions and Notices

- For your own safety, do not operate the controls of the product while driving.
- Use this product prudently. The product is intended for use solely as a navigation aid. It is not for precise measurement of direction, distance, location or topography.
- The calculated route is for reference only. It is the user's responsibility to follow the traffic signs and local regulations along the roads.
- When you get out of the car, do not leave your device on the dashboard subjected to direct sunlight. Overheating of the battery can cause malfunction and/or danger.
- GPS is operated by the United States government, which is solely responsible for the performance of GPS. Any change to the GPS system can affect the accuracy of all GPS equipments.
- GPS satellite signals do not typically pass through solid materials such as brick, concrete, or lead-coated safety glass. When inside a tunnel, building or under-ground parking structures, GPS positioning will not typically be available.
- A minimum of 4 GPS satellite signals are typically needed to determine your GPS position. Signal reception can be affected by dense overhead structures, severe weather, geographic location or time of day.
- Other wireless devices in the vehicle might interfere with the reception of satellite signals and cause the reception to be unstable.
- Your GPS device is always tracking your location (you are the green arrow) when the navigation software is running and GPS signal is available. Your GPS device is not designed to broadcast its location; therefore it can not be tracked by anyone else.

- A device holder is needed when using the device in a car. Be sure that you place the device in an appropriate place, so as not to obstruct the driver's view, or deployment of airbags.



1 Getting Started

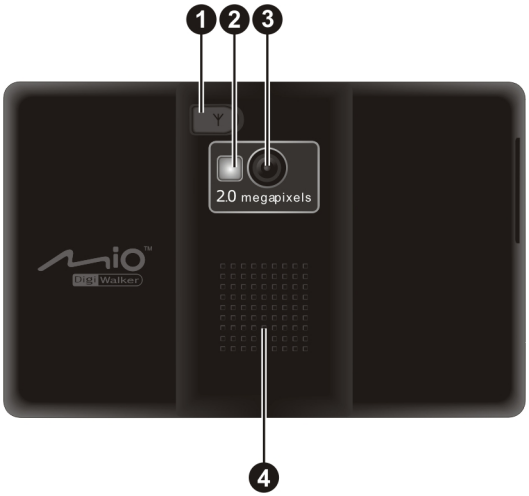
1.1 Understanding Hardware Components

NOTE: Depending upon the specific model purchased, the color of your device may not exactly match the device shown in this manual.

Front Components

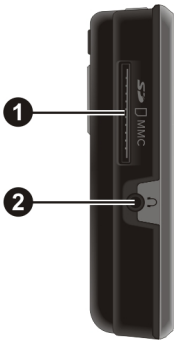
Ref	Component	Description
❶	**GPS Antenna**	Receives signals from the GPS satellites overhead.
❷	**Bluetooth Indicator**	Flashes in blue to indicate that Bluetooth is on.
❸	**Charge Indicator**	Glows bright amber to indicate that the battery is charging, and turns green when the battery is fully charged.
❹	**Microphone**	For Bluetooth hands-free calling.
❺	**Touch Screen**	Displays the output of your device. Tap the screen with your fingertip to select menu commands or enter information.

Back Components



Ref	Component	Description
❶	**External GPS Antenna Connector**	This connector (under rubber dust cover) allows use of an optional external GPS antenna with magnetic mount, which may be positioned on top of the car for better signal reception in areas with poor reception.
❷	**Viewing Mirror**	Lets you see your own reflection in the small mirror when taking photos of yourself.
❸	**Camera Lens**	Takes photos or records videos.
❹	**Speaker**	Sends out music, sounds and voice.

Left-Side Components

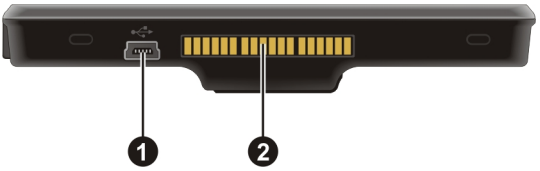


Ref	Component	Description
❶	**SD/SDHC/MMC Slot**	Accepts a SD (Secure Digital), SDHC (Secure Digital High Capacity), or MMC (MultiMediaCard) card for accessing data such as MP3 music.
❷	**Headphone Connector**	Connects to 2.5mm stereo headphones.

Top Components

Ref	Component	Description
❶	**Power Button**	Turns on and off the device. (You will get different results depending on the amount of time you hold down this button. See Sections 1.6 and 15.1 for information.)
❷	**Camera Button**	Starts the Camera program. (This button function is disabled when using MioMap.)
		Serves as the shutter release button when using the Camera program. Auto-focus can be achieved by holding down the button half way.

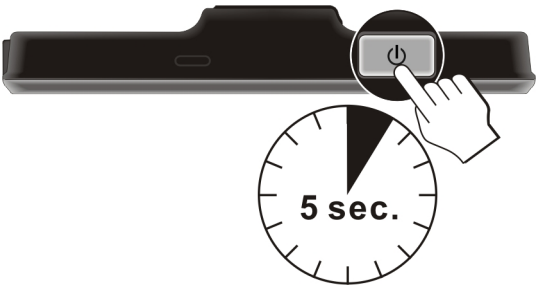
Bottom Components



Ref	Component	Description
❶	**Mini-USB Connector**	Connects to the charger or USB cable.
❷	**Cradle Connector**	Connects to the cradle.

1.2 Performing the Initial Start Up

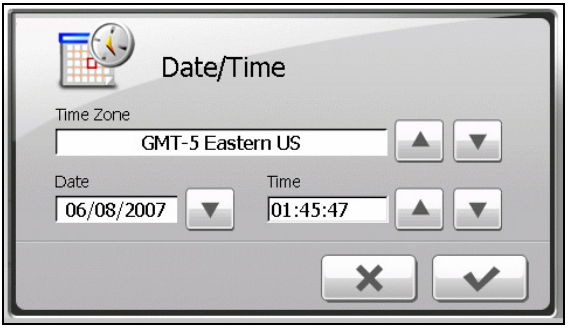
1. For the initial start up, press the power button for 5 seconds to turn on your device.



NOTE: For normal operation, briefly press the power button to turn on and off your device.

2. Your device turns on. Immediately charge your device as described in the next section.
3. The "Switch Language" screen appears. Tap the arrow button to select the desired language. Then, tap the button.

4. The “Date/Time” screen appears. Tap the appropriate arrow button to select the time zone, date, and time. Then, tap the button.

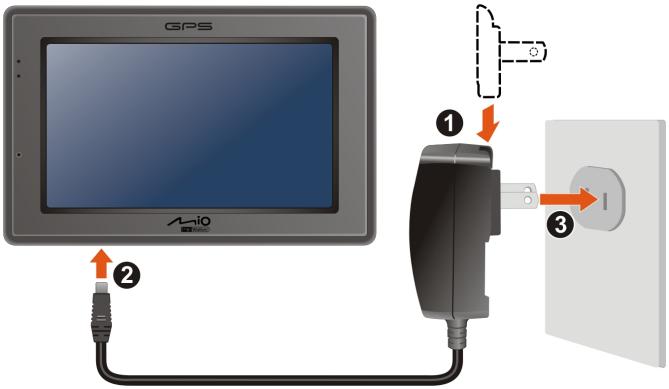


5. The Home screen appears. You can now use your device.

1.3 Connecting to AC Power and Charging the Battery

When charging the battery for the very first time, you should charge it for at least 8 hours.

1. Slide and click the connector converter onto the AC adapter.
2. Connect the adapter cable to the bottom of your device.
3. Plug the AC adapter into a wall outlet.



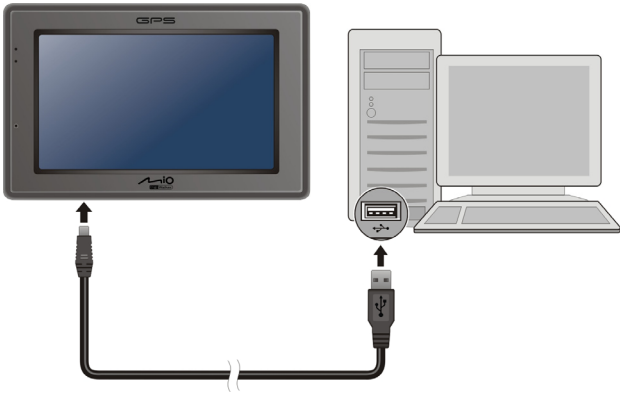
4. The charge indicator glows amber when charging is in progress. Do not disconnect your device from AC power until the battery is fully charged, the charge indicator will turn green. This will take a couple of hours.

NOTE:
- Do not immediately turn on your device after connecting the AC adapter to charge a power-depleted battery. If you need to turn on the device again, wait for at least one minute.
- Depending on your region of purchase, the connector converter may not look exactly the same as the picture shown.

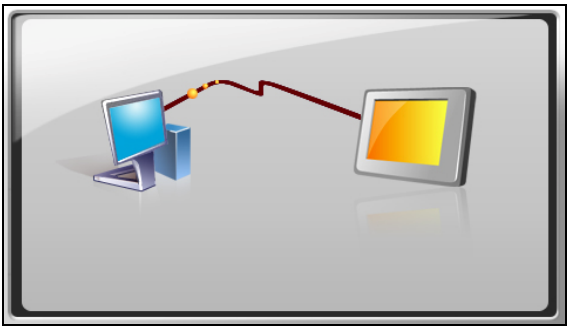
CAUTION: For optimal performance of the lithium battery:
- Do not charge the battery where the temperature is high (e.g. in direct sunlight).
- There is no need to fully discharge the battery before charging. You can charge the battery before it is discharged.
- When storing the product for a long period of time, be sure to fully charge the battery at least once every two weeks. Over discharge of the battery can affect the charging performance.

1.4 Charging the Battery via the USB Cable

1. Turn on the computer.
2. Connect the mini-USB end of the USB cable to the bottom of your device and the other end to a USB port on your computer.



3. If your device is on, the screen as shown below appears. Whenever your device is connected to a computer, you will not be able to use it.



NOTE:

- When the device is connected to a computer, it is recognized as an external mass storage device. Do not delete any files pre-installed in the device. Deleting files of which the function is unknown can cause programs or features to malfunction.
- If you intend to charge your device in this way, turn off your device so that it takes less time to charge the battery.

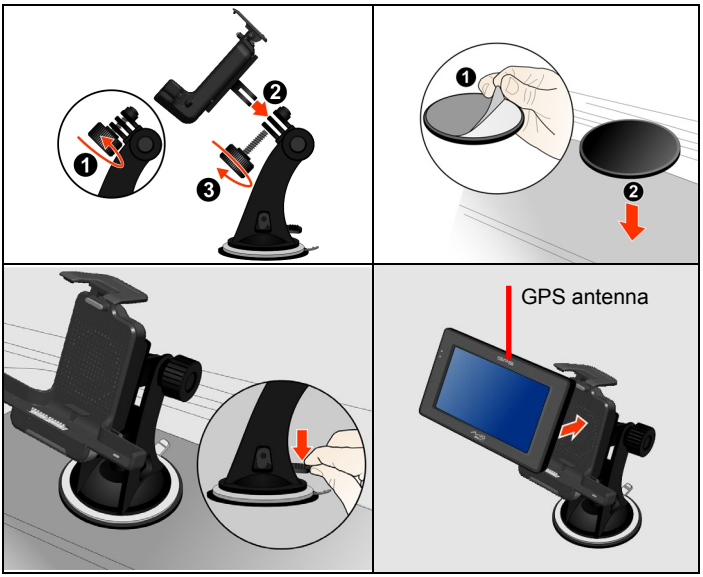
1.5 Using Your Device in a Vehicle

CAUTION:

- Select an appropriate location for mounting the device in a vehicle. Never place the device where the driver's field of vision is blocked. Make sure that the GPS antenna has a clear view of the sky.
- If the car's windshield is tinted with a reflective coating, an external antenna (optional) may be needed to route the antenna to the top of the vehicle through a window. When closing the window, be careful not to pinch the antenna cable.

Using the Cradle

Use the cradle and the stand to fix your device in a vehicle.

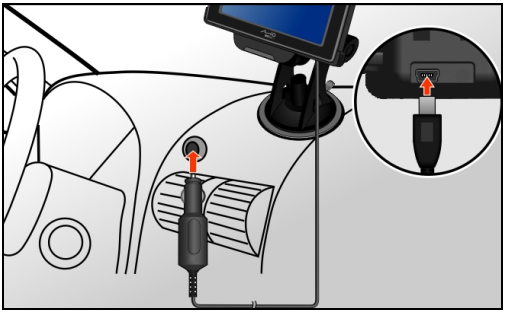


Connecting the Car Charger

The car charger supplies power and charges your device at the same time. If the battery is fully charged, you can use the battery power without connecting the charger. If you don't want to drain the battery power, you can keep the car charger connected while in a vehicle.

CAUTION: To protect your device against sudden surges in current, connect the car charger only after the car engine has been started.

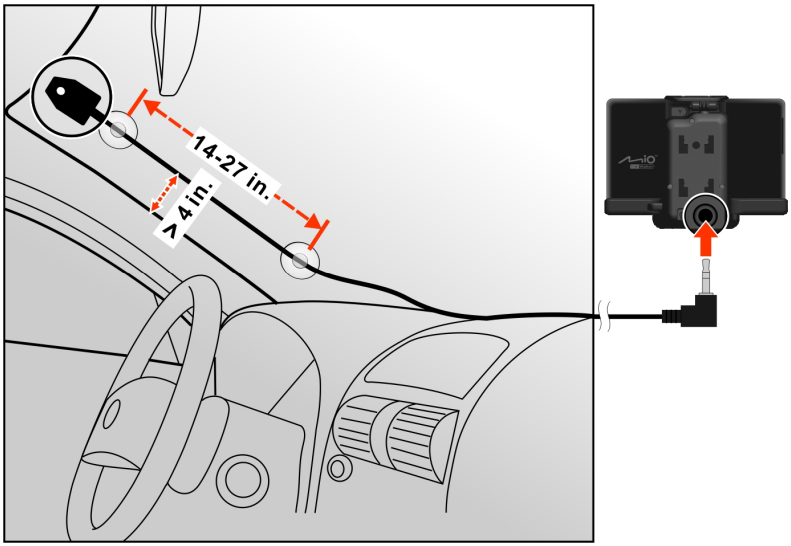
1. Connect one end of the car charger to the power connector of the cradle.
2. Connect the other end to the cigarette lighter in the car to power and charge your device.



Connecting the TMC Antenna

A TMC antenna is provided with your cradle. You must attach the antenna to the back of the TMC cradle in order to receive real-time driving traffic information.

> **CAUTION:** Keep the antenna cord fairly straight (not curled or bent) for best reception.



TMC information is monitored by the navigation software. Once the information is received, you can view it on your device and traffic icons will appear in the map view. Certain roads with reported traffic will be highlighted and you can choose to avoid those roads and an alternate route will be automatically calculated. (See the navigation software manual for detailed information.)

1.6 Operating Basics

Turning On and Off

For normal operation, turn off the device by briefly pressing the power button. The device enters a suspended state.

When you next briefly press the power button, the system resumes. You will either be back to where you left off or see the Home screen.

NOTE:

- The screen you see after resuming depends on the program you were using when you suspended the device. Some programs will be closed when you suspend the device, meaning you can only see the Home screen after resuming.
- Pressing the power button for a longer duration has a different effect. See Section 15.1 for more information.

Navigating on the Screen

To operate your device, touch the screen with your fingertip. You can perform the following actions:

- **Tap**
  Touch the screen once with your fingertip to open items or select onscreen buttons or options.
- **Drag**
  Hold your fingertip on the screen and drag up/down/left/right or across the screen. (Not all programs support this operation.)
- **Tap and hold**
  Tap and hold your fingertip until an action is complete, or a result or menu is shown. (Not all programs support this operation.)

Home Screen

The first time you initialize your device, the **Home** screen appears. The **Home** screen is your starting place for various tasks. Tap a button to start a program or open another menu. When you exit a program, you are back to the **Home** screen.

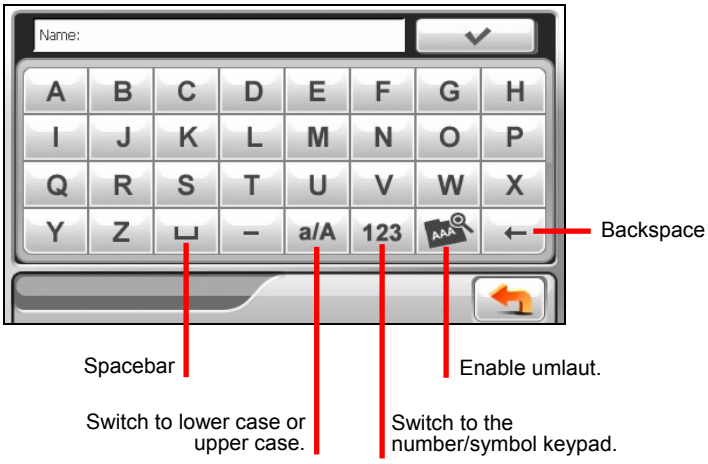
No.	Button Name	Description	For Detailed Information
❶	**MioMap**	Starts the navigation software.	See the MioMap manual
❷	**MioPlayer Pro**	**Videos** plays video files.	Chapter 2
		Audio plays audio files.	Chapter 3
		Pictures displays picture files.	Chapter 4
❸	**Camera**	Take photos or record videos.	Chapter 5
❹	**Contacts**	Keeps a list of names, addresses, and phone numbers.	Chapter 6

No.	Button Name	Description	For Detailed Information
❺	**Mobile Phone**	Searches for Bluetooth mobile phones for a connection.	Chapter 7
❻	**Stereo**	Searches for Bluetooth headsets or car stereos for a connection.	Chapter 7
❼	**Tools**	**Card Scanner** allows you to scan and recognize business cards for storing contacts information.	Chapter 8
		Calculator provides basic arithmetic, currency conversion, and measure conversion functions.	Chapter 9
		File Manager transfers multimedia files between a storage card and the device's flash memory.	Chapter 10
❽	**Settings**	Customizes the system settings.	Chapter 11

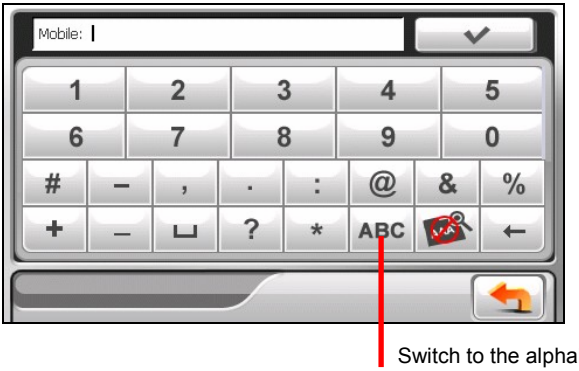
Using the Soft Keyboard

There are occasions when you input text or numbers to your device. For example, you have to enter names, addresses, and phone numbers in the Contacts program. On such occasions, the soft keyboard as shown below will appear on the screen. Depending on the current operation, either the alphabet keypad or the number/symbol keypad appears.

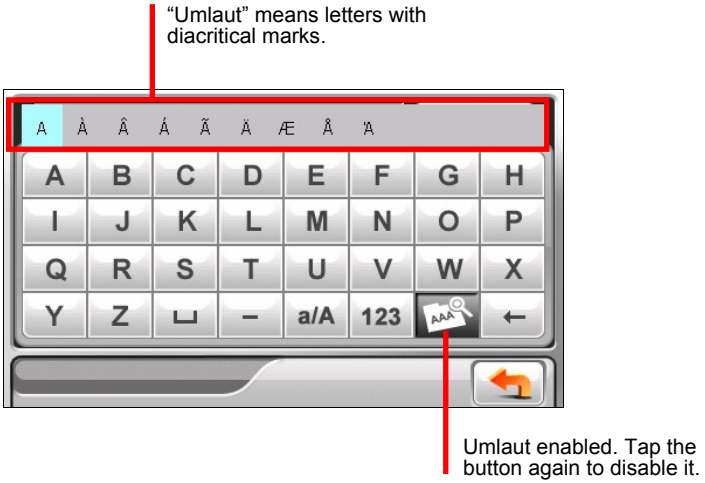
Alphabet Keypad



Number/symbol Keypad



When you tap to enable umlaut, you can tap a vowel letter repeatedly to input a different form of the letter. Alternatively, you can tap the letter in the pop-up window as shown below.



After you complete an input, tap .

1.7 Inserting a SD/SDHC/MMC Card

Your device has a storage card slot where you can insert an SD, SDHC, or MMC storage card.

To use a storage card, insert it into the slot, with the connector pointing to the slot and its label facing the front of the device.

To remove a card, first make sure that no application is accessing the card, then slightly push the top edge of the card to release it and pull it out of the slot.

> **NOTE:** Make sure that no foreign objects enter the slot.

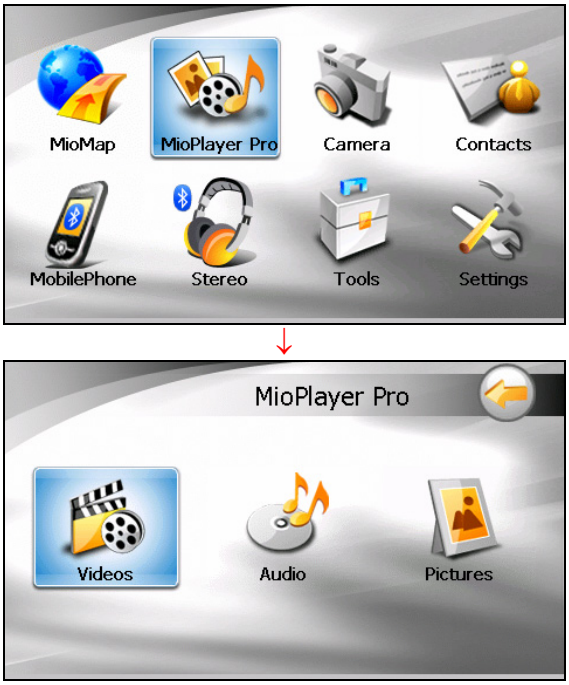
2 Videos

2.1 Starting and Exiting Videos

> **CAUTION:** DO NOT view videos while driving. It may be illegal in your state for a display showing a video to be in view of the driver.

Videos allows you to watch the video clips on your device. (See later section for the formats that your device supports.)

Tap **MioPlayer Pro** on the Home screen and then tap **Videos** to start the program.



To exit the program, tap .

2.2 Preparing the Video Files for Your Device

Before using the program, have the files ready on either your device's **My Flash Disk\ My Videos** folder or on a storage card.

Note that your device only supports video files in the following formats:

Formats	Video Codec	Audio Codec
MP4 (.mp4)	MPEG4	AAC/AAC+/eAAC+
MP4 (.mp4)	H.263	AAC/AAC+/eAAC+
MP4 (.mp4)	MPEG4	AMR-NB
MP4 (.mp4)	H.263	AMR-NB
QuickTime Movie (.mov)	MPEG4	AAC/AAC+/eAAC+
QuickTime Movie (.mov)	H.263	AAC/AAC+/eAAC+
AVI (.avi)	MPEG4	ADPCM
AVI (.avi)	DivX	MP3
3GP(.3gp)	MPEG4	AAC/AAC+/eAAC+
3GP(.3gp)	H.263	AAC/AAC+/eAAC+
3GP(.3gp)	MPEG4	AMR-NB
3GP(.3gp)	H.263	AMR-NB
ASF(.asf)	MPEG4	ADPCM
WMV (.wmv)	WMV	WMA

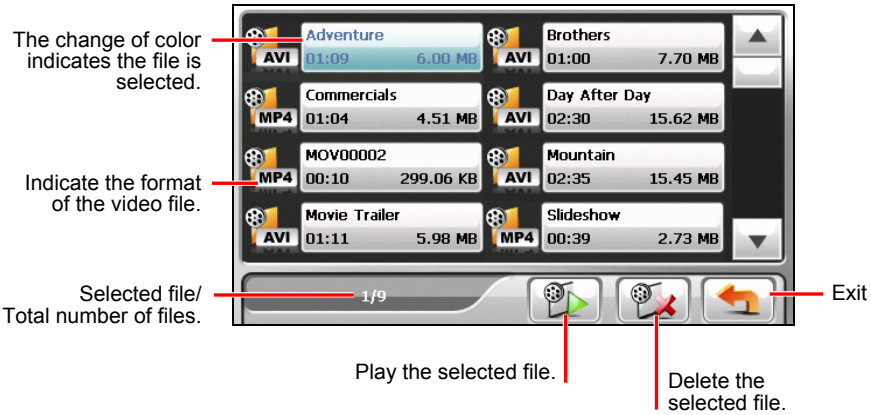
NOTE: AVI supports only DivX 4 and DivX 5 playback.

Use **Video ToolBox** supplied with your device to convert video files to the format supported by your device. (See Chapter 13 for information.)

A tool called **Mio Transfer** is supplied for you to easily copy the files from your computer to the correct location. (See Section 12.3 for information.)

2.3 Playing Video Clips

1. If your files are in a storage card, insert the card into your device.
2. Tap **MioPlayer Pro** on the Home screen and then tap **Videos** to start the program.
3. The program will search the matching files in the specific folder on your device and in all folders on a storage card. It then displays the video file list.

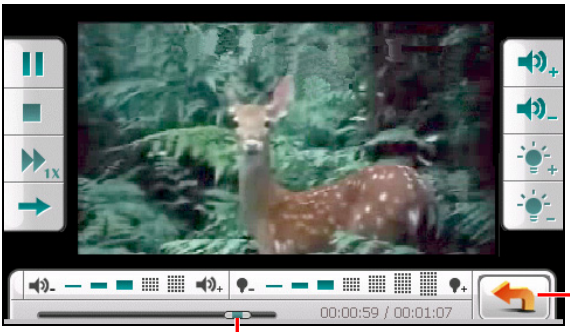


NOTE: The file information such as the length of the video and file size is displayed together with the file name.

4. To play a video file, tap AVI in front of the filename. Or, you can tap the filename and tap . (See the next section for descriptions of the onscreen control buttons.)

2.4 Video Playback Controls

During the playback, tap anywhere on the screen to open or close the onscreen control buttons. When the control buttons are closed, the video shows in full screen.



Control Button	Name	Description
/	Play/Pause	Play or pause the playback.
	Stop	Stop the playback.
	Fast Forward	Fast forward the video. Tap the button to switch to the next speed. → →
	Playback Mode	Switch to the next mode: Single playback. Repeated playback.
/	Backlight	Increase or decrease the video backlight. The indicator at the bottom shows the current brightness level.
/	Volume	Increase or decrease the volume. The indicator at the bottom shows the current volume level.
	Exit	Stop the video playback and return to the video list screen.

3 Audio

3.1 Starting and Exiting Audio

Audio features:

- Playback of MP3/WAV/WMA files
- Basic playback controls such as play, pause, stop, next and previous
- Playback includes single selection playback, repeat, single repeat, sampling playback, normal sequence and random sequence.
- 11 preset equalizer audio profiles
- Play list support
- Background playback
- Lyrics display

Tap **MioPlayer Pro** on the Home screen and then tap **Audio** to start the program.

The control panel appears on the screen where you can easily control the player by tapping the control buttons.

To exit the program, tap .

3.2 Preparing the Audio Files for Your Device

Before using the program, have the files (.mp3, .wav, or .wma) ready on either your device's **My Flash Disk\My Audio** folder or on a storage card.

A tool called **MioTransfer** is supplied for you to easily copy the files from your computer to the correct location. (See section 12.3 for information.)

3.3 Playing Audio Files

1. If your files are in a storage card, insert the card into your device.
2. Tap **Audio** on the Home screen to start the program.
3. The program will search for the supported audio files in your device and in the storage card. When files are detected, they will be added to the play list.

   NOTE: You can create your own play lists for future playback. (See section 3.6 for details.)

4. To start the playback, tap . To control the playback, use the control buttons as described later.

The information area displays the current status including the play/pause/stop status, the elapsed time, the power status, the playback mode, the volume level, and the properties of the current song such as the artist (if available with the file), filename, total length, and stereo/mono information.

NOTE:

- During the playback, the screen will automatically blank out if you haven't tapped the screen within the preset time (30 seconds by default).The screen will restore when you press the power-button or when the playback of the current play list has ended.
- If the total length of a song exceeds 99 minutes and 59 seconds, the information area cannot correctly display the length because the maximum number allowed is 99:59. However, the playback of the song is not affected.

3.4 Playback Controls

Control Button	Name	Description
	Play/Pause	Plays or pauses the playback.
	Stop	Stops the playback.
	Previous/ Next	Plays the previous or next file.
	Volume	Increase or decrease the volume. The indicator on the panel shows the current volume level.
	Track Bar	You can tap on a point along the track bar to move directly to a different location for the playback.
	Playback Mode	Switches to the next mode:
		Repeated playback of the current file.
		Repeated playback of all files in the current play list in sequence.
		Playback of all files in the current play list in random order.
		Sampling (10 seconds) playback of all files in the current play list in random order.
		Playback of all files in the current play list in sequence.
	Lyrics	Opens the lyrics display. Available only if the current song is with lyrics. (See Section 3.5 for more information.)
	Minimize	Minimizes the control panel and play the music in the background.
	Play List	Opens the play list. (See Section 3.6 for more information.)
	Equalizer	Opens the equalizer panel. (See Section 3.7 for more information.)
	Settings	Opens the Settings screen for setting up power saving mode and accessing help. (See Section 3.8 for more information.)
	Exit	Closes the program and returns to the Home screen.

3.5 Displaying Lyrics

The program allows you to display the real-time lyrics on the screen while playing songs. This feature is especially handy for you to sing along with the songs.

Preparing the Lyrics Files for your Device

To display the lyrics, you need to have the lyrics files (.lrc) ready on your device's **\My Flash Disk\My Audio\Lyric** folder or the **\My Audio\Lyric** folder on your storage card.

> **NOTE:** You can search and download these .lrc files from the Internet.

Use **MioTransfer** to copy the lyrics to the correct location of your device. (See section 12.3 for information.) When copying a lyric file to your device, be sure to use the same filename as the audio file. For example, if a MP3 file is named **My Love.mp3**, the lyrics filename must be **My Love.lrc**.

> **NOTE:** When playing songs with lyrics, the 30-second screen off feature will not take effect.

Playing Songs with Lyrics

The

button is available when you're playing a song with lyrics. Tap this button to view the lyrics.

As the song plays, the lyrics scroll line by line on the screen, with the current line highlighted by a different color. The background image changes in turn at a specific time interval.

To close the lyrics screen and go back to the control panel, tap anywhere on the screen.

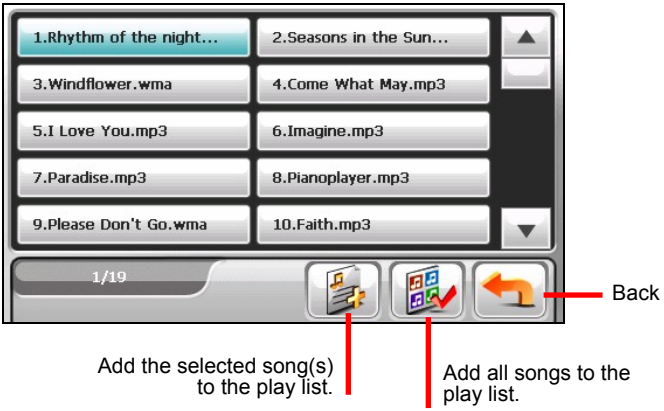
3.6 Using the Play Lists

You can create your own play lists for future use.

Creating a Play List

1. Tap on the control panel to open the play list screen. The screen shows the current play list.

2. To add a song to the play list, tap .
3. A screen appears displaying all the audio files. Tap the song(s) you wish to add and then tap .



4. To save the play list, tap .

5. The keyboard screen appears where you can change the default name of the play list. Rename the play list if you want. Tap when finished.

6. To return to the control panel, tap .

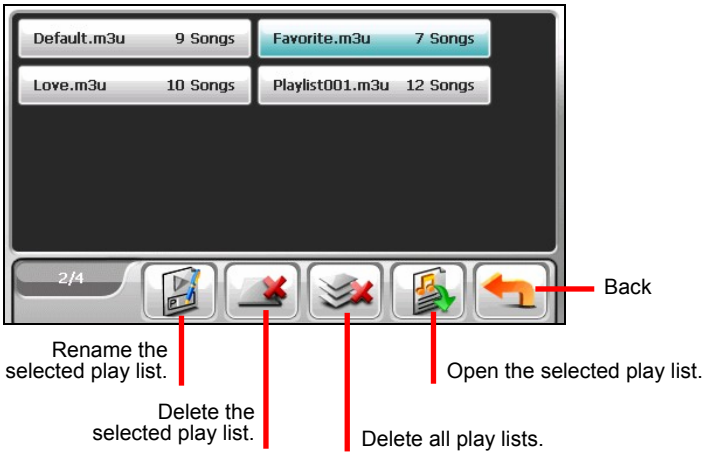
Opening a Play List

To open one of the play lists that you have created:

1. Tap on the control panel.

2. Tap to display all the play lists you have created.

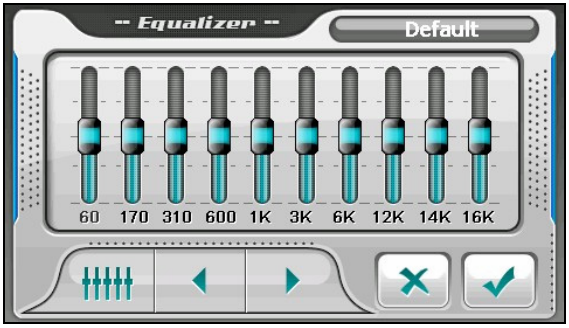
3. Tap the play list you want to open and tap .



4. To return to the control panel, tap .

3.7 Equalizer

The program provides 11 preset audio profiles. Tap to open the equalizer panel.



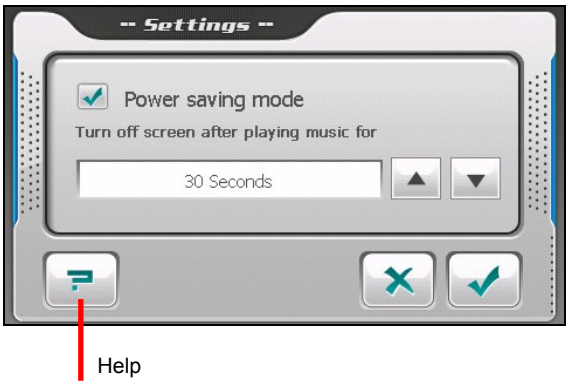
Tap or to cycle through the available options: *Default*, *Rock, Pop, Jazz, Classical*, *Dance*, *Heavy*, *Disco*, *Soft*, *3D* and *Hall*.

Tap to save your selection and return to the control panel.

To select the *Default* profile, tap .

3.8 Settings

Tap on the control panel. The Settings screen appears.



NOTE: To know the function of each button, you can tap . Then tap the button on the list to display a description line on the right side of the screen.

Tap the check box (√) to turn on the power saving mode. Tap the up/down button to set the timer to *10 seconds*, *30 seconds*, *1 minute*, or *5 minutes*. During the playback, the screen will automatically blank out f if you haven't tapped the screen within the preset time (30 seconds by default).The screen will restore when you press the power button or when the playback of the current play list has ended.

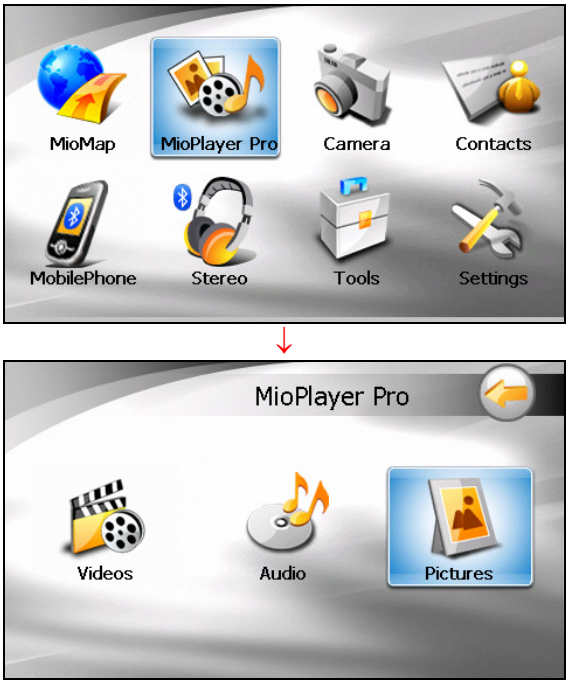
Tap to save any changes you have made.

4 Pictures

4.1 Starting and Exiting Pictures

Pictures allows you to view pictures in JPG, JPEG, and BMP formats and view the slideshow of the pictures on your device.

Tap **MioPlayer Pro** on the Home screen and then tap **Pictures** to start the program.



To exit the program, tap .

4.2 Preparing the Pictures for Your Device

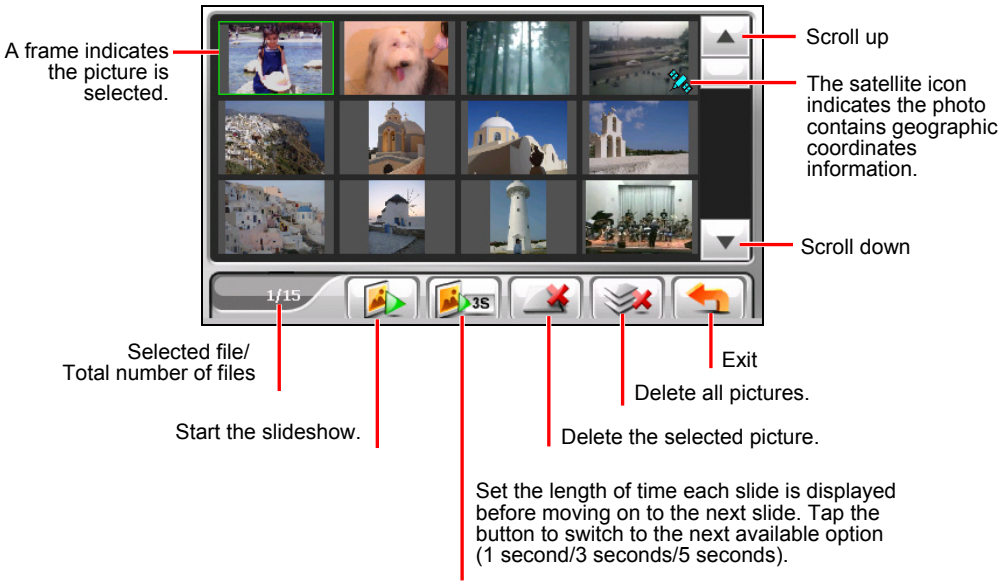
Before using the program, have the files (.jpg, .jpeg, or .bmp) ready on either your device's **My Flash Disk\My Pictures** folder or on a storage card.

> **NOTE:** The Pictures program does not support the display of BMP files in 32-bit and above color depth formats.

A tool called **MioTransfer** is supplied for you to easily copy the files from your computer to the correct location. (See section 12.3 for information.)

4.3 Viewing Pictures in Thumbnail View

1. If your files are in a storage card, insert the card into your device.
2. Tap **Pictures** on the Home screen o start the program.
3. The program will search the matching files in the specific folder on your device and in all folders on a storage card. It then displays the pictures in the thumbnail view.



4.4 Viewing a Picture in Full Screen

When you tap a picture twice in the thumbnail view, the picture is displayed in full screen.

To go back to the thumbnail view, tap anywhere on the screen to display the control buttons and then tap .

4.5 On-Screen Control Buttons

On-screen control buttons provide various functions and settings. Tap anywhere on the picture to display the buttons as shown below. To close the buttons, tap the picture again.

Control Button	Name	Description
	Slideshow	Starts the slideshow. (See section 4.6 for detailed information.)
	Rotate	Rotate clockwise by 90 degrees.
	Information	Enables or disables the displaying of the name and date of the file.
	Delete	Deletes the current picture.
	Brightness	Tap the button to adjust the brightness of the picture.
	Zoom	Tap the button to zoom in to 1.2x, 1.5x, 1.8x, or 2.0x, or, after zooming in, to zoom out. When you have zoomed in the picture, you can drag the picture to view other parts of the picture.
	Back	Goes back to the thumbnail view.

If you open a photo that contains geographic coordinates information, three additional control buttons appear along the right side of the screen as shown below. (You can take photos to include geographic coordinates information using the Camera program. See Section 5.3 for details.)

4.6 Viewing the Slideshow

To view the slideshow of all your pictures, use one of the following ways:

- When in the thumbnail view, tap to start the slideshow.
- When in full screen, tap anywhere on the picture to display the on-screen control buttons. Then tap to start the slideshow.

To stop the slideshow, tap anywhere on the screen.

5 Camera

5.1 Starting and Exiting Camera

Camera allows you to take photos or record videos. You can view your photos and videos in the program.

There are two ways to start the Camera program:

- Tap **Camera** on the Home screen.

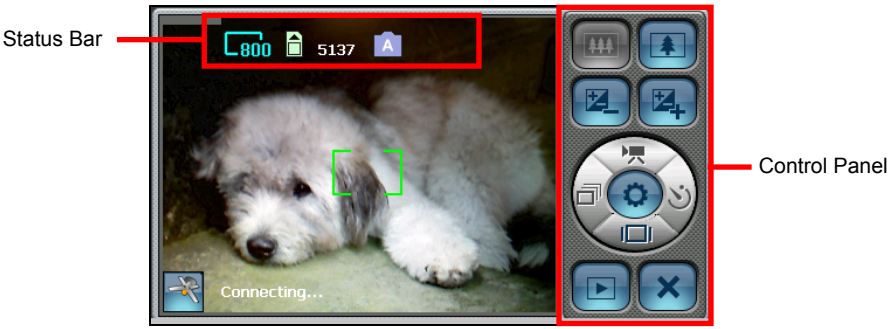
- Press the Camera button on the top of the device. (This will close the current program.)

NOTE: When using the MioMap navigation program, the Camera button is disabled.

To exit the program, tap .

5.2 Taking a Photo

1. Insert a storage card if you want to store your photos to it. Make sure that the correct storage location is specified. (See Section 5.4 for information.)
2. Start the Camera program (as described in 5.1). The program will be in the Camera mode by default.
3. If you need to change the settings, tap . (See Section 5.4 for information.)
4. Compose your photograph. You can use the control button on the right to adjust the camera lens (details provided in following sub-section).
5. The program has an auto-focus function. When ready, press lightly (halfway down) on the Camera button and hold. A red focus bracket ([ ]) will appear in the center of the screen. When the color of the bracket changes from red to green ([ ]), focusing is completed. Now press fully down on the Camera button to take the photo. The system will play a sound to indicate that the shutter has been released.



NOTE: The red focus bracket will blink in red to indicate that the program cannot focus on the current target.

6. After taking a photo, the program saves it with the filename DSC*xxxxx*.JPG (where *xxxxx* is a sequential number, e.g. DSC00001.JPG).

   If you have already inserted a storage card and specified it as the storage location, the photo will be saved to the card in the **\My Pictures** folder. The photo will otherwise be stored in the device's **\My Flash Disk\My Pictures** folder.

   NOTE: If you have deleted all photo files in the storage device, the numbering of the filenames will restart from 00001.

7. To view the photo that you just took, tap . (See Section 5.7 for information.)

8. To exit the Camera program, tap .

Camera Screen Elements

Camera Status Icons

Several icons appear at the top of the screen to indicate the current status:

Icon	Name	Description
	Resolution	The number indicates the resolution is set to 320 x 240, 336 x 252, 400 x 300, 640 x 480, 800 x 600, 1280 x 960 or 1600 x 1200. (Only the front number is displayed.)
	Storage Location	– the device's internal memory – the storage card
	Remaining Shots	The number indicates how many more shots can be taken and saved to the current storage location. The number of shots is determined by the amount of space remaining in memory and the selected resolution.
	Scene Mode	– Auto Mode – Night Mode – Sports Mode – Indoor Mode – Outdoor Mode.
	Timer	This icon appears if the Timer function is enabled. The number within the icon indicates the timer duration (5 sec or 10 sec).
	Continuous Shot	This icon appears when the continuous shot function is enabled.
	GPS Stamp	This icon appears in the lower left corner of the screen when the GPS stamp function is enabled.

Camera Control Panel

The control panel to the right of the screen provides these buttons:

Control Button	Name	Description
	Zoom In/ Zoom Out	Tap to zoom in the camera lens; when zoomed in, tap to zoom out. The available zoom settings are 1x, 1.25x, and 2x. A scale will appear at the bottom of the screen showing the current zoom ratio. **NOTE:** If you are using a resolution higher than (but not including) 800 x 600, the Zoom function will not be available.
	Exposure Compensation	Adjusts the brightness of the photo. The available settings are –1.5, -1, -0.5, 0, 0.5, 1, and 1.5. A scale will appear at the bottom of the screen showing the current brightness level.
	Change Function	Switches to the Video Mode.
	Continuous Shot	Enables or disables the continuous shot function. (See later sub-section on “Using the Continuous Shot Function” for details.)
	Display	Enables or disables the display of the status icons.
	Timer	Enables or disables the timer function. (See later sub-section on “Using the Timer” for details.)
	Settings	Opens the Camera Settings screen. (See Section 5.4 for information.)
	View	Switches to the View mode. (See Section 5.7 for information.)

5.3 Using the Special Camera Functions

Using the Continuous Shot Function

The program offers a Continuous Shot function so each release of the shutter takes four photos in a row.

1. Tap on the control panel.
2. The icon will appear in the top right corner of the screen to indicate that the Continuous Shot function is enabled. To take photos, follow the instructions as described in the “Taking a Photo” section.

   NOTE: Photos taken using Continuous Shot are limited to 640 x 480 resolutions.

3. Once the Continuous Shot function is enabled, it will remain active until you turn it off or exit the program. To stop using this function, turn it off by tapping the button again.

Using the Timer

The program offers the Timer function so a photo is only taken 5 or 10 seconds after you release the shutter.

1. Tap on the control panel. (The Timer can be set to 5 or 10 seconds. See Section 5.4 for details.)
2. The icon will appear in the top right corner of the screen to indicate that the Timer function is enabled. To take photos, follow the instructions as described the “Taking a Photo” section. The program will take a photo after the set delay.
3. Once the Timer function is enabled, it will remain active until you turn it off or exit the program. To stop using this function, turn it off by tapping the button again.

Storing Geographic Coordinates

Apart from taking photos, the Camera program also offers GPS Stamp function. This will store the geographic coordinates of your location as you take a photo. In the future you can use the MioMap navigation program to directly navigate to the shooting location of the photo.

1. Start the Camera program (as described in 6.1). If the GPS Stamp function is not enabled, tap →

→

→ to enable it.

2. The icon will appear in the lower left corner of the screen to indicate that the program has activated its GPS port and is now searching for GPS satellites.

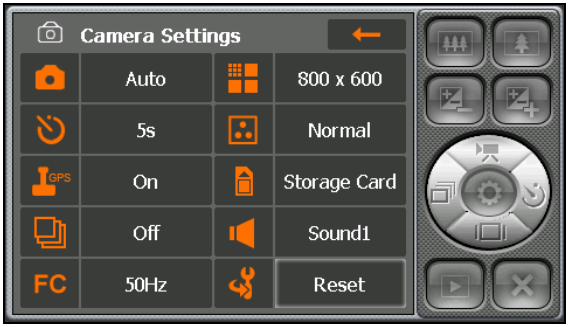
   NOTE: If a GPS fix can't be achieved within 2 minutes the icon will have an **X** symbol. You can tap this icon to try to connect again.

3. After a GPS fix, your current coordinates will show at the bottom of the screen. To take photos, follow the instructions as described in the "Taking a Photo" section.

4. Once the GPS Stamp function is enabled, it will remain active until you turn it off.

5.4 Camera Settings

Tap on the control panel while in Camera mode and the Camera Settings screen as shown below appears.



Tap the set value for an item to open the sub-menu (except for the Reset item). In the sub-menu, select the desired value. A check indicates the current value.

Item	Name	Description
Auto	Scene Mode	Sets the scene mode to Auto, Night, Sports, Indoor, or Outdoor.
800 x 600	Resolution	Sets the resolution to 320 x 240, 336 x 252, 400 x 300, 640 x 480, 800 x 600 (default), 1280 x 960, or 1600 x 1200.
5s	Timer	Sets the countdown delay time for the Timer to 5 seconds (default) or 10 seconds.
Normal	Effect	Allows you to apply different effects to the photo. Options are Normal (default), Sepia, and Mono.
On	GPS Stamp	When enabled, you can store the GPS coordinates of your current location to the photo file.
Storage Card	Storage Location	Selects whether to store photos to the device memory in the **\My Flash Disk\My Pictures** folder or to the storage card's **\My Pictures** folder (must be inserted first).
Off	Continuous Shots	Enables or disables (default) the four-picture continuous shot function.
Sound1	Shutter Sound	Sets the sound effect to play when you release the shutter (3 sound effects available); You can also disable the shutter sound.
FC 50Hz	Frequency Control	Selects the refresh frequency for fluorescent lights: 50Hz or 60Hz (default).

Item	Name	Description
Reset	Reset	Restore the Camera settings to their factory defaults.

To leave the Settings screen, tap . Any changes that you have made will be stored and retained until you change them again.

5.5 Recording Videos

1. Insert a storage card if you want to store your videos to it. Make sure that the correct storage location is specified. (See Section 5.6 for information.)
2. Start the Camera program (as described in 5.1). The program will be in the Camera mode by default. Tap to switch to the Video mode. This will be indicated by the on the screen.
3. If you need to change the settings, tap . (See Section 5.6 for information.)
4. Aim the camera lens at your target. You can use the control button on the right to adjust the camera lens (details provided in following section).
5. To begin recording, fully press the Camera button.

   The system will play a beep sound and the red icon ■ will appear on the screen to indicate that recording is in progress. The number to the side shows the length of video recorded so far (e.g. 00:05). By default, videos are limited to a length of 15 seconds. (You can change this in Video Settings.)

6. To manually end the recording, press the Camera button again. The system will play a beep sound to indicate that the recording has been stopped.

7. After recording, he program will save it with the filename MOV*xxxxx*.MP4 (where *xxxxx* is a sequential number, e.g.MOVC00001.MP4).

> **NOTE:**
> - If you have deleted all video files in the storage device, the numbering of the file names will restart from 00001.
> - By default the file format is MP4. You can also change the format to 3GP. (See 5.6 for more information)

If you have already inserted a storage card and specified it as the storage location, the video will be saved on the card in the **\My Videos** folder. The video will otherwise be stored in the device's **\My Flash Disk\My Videos** folder.

8. To view the video that you just recorded, tap . (See Section 5.7.)

9. To exit the program, tap .

Video Screen Elements

Video Status Display

Several icons appear at the top of the screen to indicate the current status:

Icon	Name	Description
	Resolution	The number indicates the resolution is 128 x 96 or 176 x 144. (Only the front number is displayed.)
	Storage Location	– the device's internal memory – the storage card
	Video Mode	Indicates that you are currently in Video mode.
	Recorded Time	The red icon indicates that recording is in progress. The changing number shows the amount of time recorded so far.
	Remaining Recording Time	The number indicates the length of video that can still be stored at the storage location. The length is determined by the amount of space remaining in memory and the selected resolution. (The maximum value that can be displayed on the screen is 99. Therefore, if the remaining time is greater than 99, only 99 will be shown on screen.)

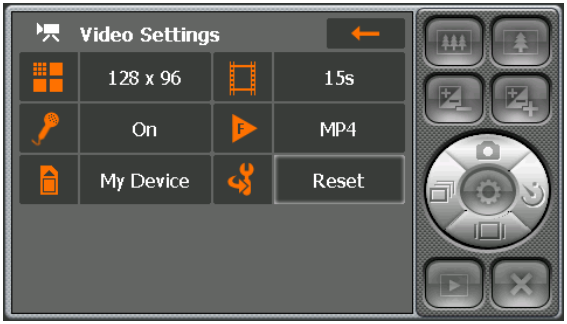
Video Control Panel

The control panel to the right of the screen provides these buttons:

Control Button	Name	Description
	Change Function	Switch to the Camera mode.
	Zoom In/ Zoom Out	Tap to zoom in the camera lens; when zoomed in, tap to zoom out. The available zoom settings are: 1x, 1.25x, and 2x. A scale will appear at the bottom of the screen showing the current zoom ratio.
	Settings	Opens the Video Settings screen. (See Section 5.6 for more information)
	View	Switches to the View mode. (See Section 5.7 for more information)

5.6 Video Settings

Tap on the control panel while in Video mode and the Video Settings screen as shown below appears.



Tap the set value for an item to open the sub-menu (except for the Reset item). In the sub-menu select the desired value. A check indicates the current value.

Item	Name	Description
128 x 96	Resolution	Sets the video resolution to 128 x 96 or 176 x 144.
15s	Recording Limit	Sets the maximum length of video to record. Options are 10 seconds, 15 seconds (default), and off.
On	Record Sound	Enables (default) or disables the sound recording function.
MP4	Video Format	Sets the video format to 3G or MP4 (default).
Storage Card	Storage Location	Selects whether to store videos to the device memory in the *\My Flash Disk\My Videos* folder or to the storage card's **\My Videos*** folder (must be inserted first).
Reset	Reset	Restore the Video settings to their factory defaults.

To leave the Settings screen, tap . Any changes that you have made will be stored and retained until you change them again.

5.7 View Mode

In the Camera or Video mode, tap to switch to the View mode.

When viewing a photo:

When viewing a video:

The control buttons in View mode are:

Control Button	Name	Description
	Zoom *	Zooms in or out on the image. When zoomed in, you can drag on the screen to view other parts of the image.
	Delete	Deletes the current file.
	Edit *	Edits the current photo. (See the next sub-section for details.)
	Pictures *	Starts the Pictures program. (This closes the Camera program.)
	Videos **	Starts the Videos program. (This closes the Camera program.)
	Previous/ Next	Goes to the previous or next file.
	Play/Stop **	Starts or stops video playback.
	Display *	Enables or disables the display of file information.
	Camera	Returns to the Camera/Video mode.
	Exit	Closes the program and returns to the Home screen.

Table Notes:

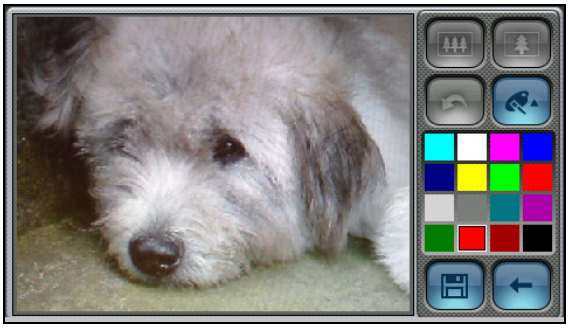
* Only when viewing a photo.

** Only when viewing a video.

Editing Photos

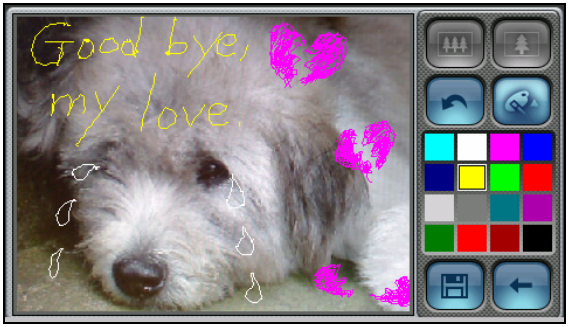
You can use the paintbrush tool to touch up the photos and create special effects.

1. When viewing the photo in View mode, tap .
2. Select the size of the photo that you wish to save.
3. Tap to enable the Paintbrush function. Select the desired color and then draw or write on the screen.



> **NOTE:** If you selected 640 x 480, you can drag on the screen to go to other parts of the photo for editing. But you must first tap to disable the Paintbrush function.

4. To undo the previous stroke, tap . (A maximum of 3 undo operations is allowed.)



5. Tap to save the edited photo as a different file. To leave without saving, tap . You will return to the View screen.

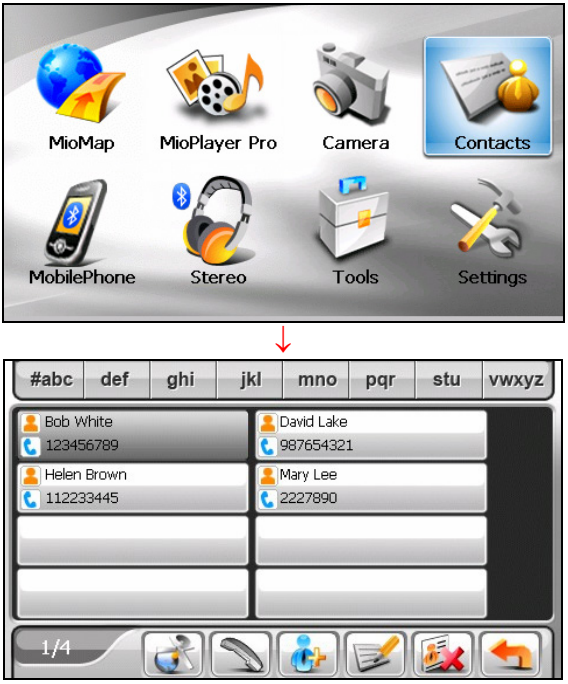
6 Contacts

6.1 Starting and Exiting Contacts

Contacts allows you to keep a list of names, addresses, and phone numbers.

> **NOTE:** If you have created Microsoft Outlook Contacts information on your computer, you can copy the information to your device. (See Section 12.4 for information.)

Tap **Contacts** on the Home screen to start the program. The contacts list appears.

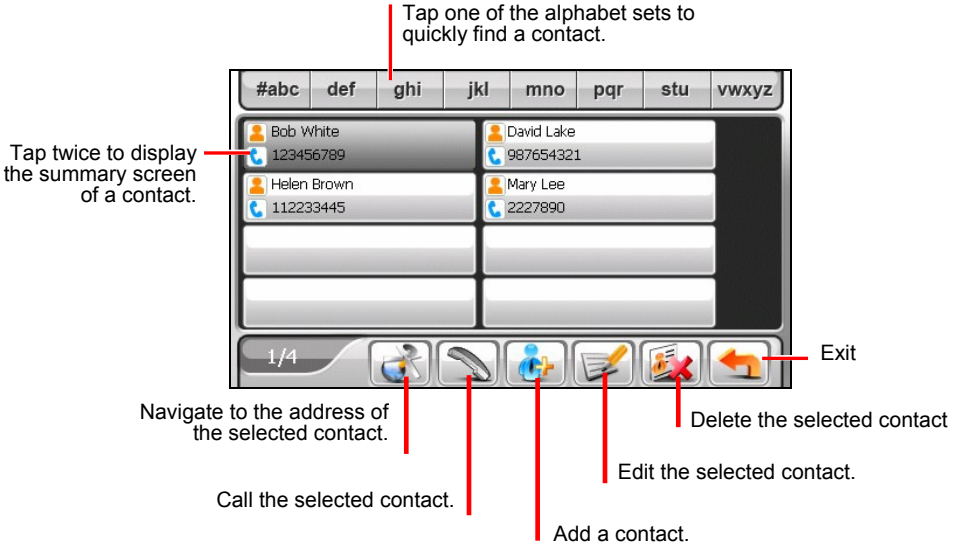


To exit the program, tap .

6.2 Using the Contacts List

After starting Contacts, the contacts list appears. It shows the names and phone numbers (mobile phone numbers by default) of your contacts.

You can use the various buttons on the screen to search a contact, navigate to the address of a contact, call a contact, and so on.



NOTE: If you have transferred the phone book from a Bluetooth mobile phone to your device (as described in Section 7.3), the contacts will also appear in the list.

6.3 Using the Summary Screen

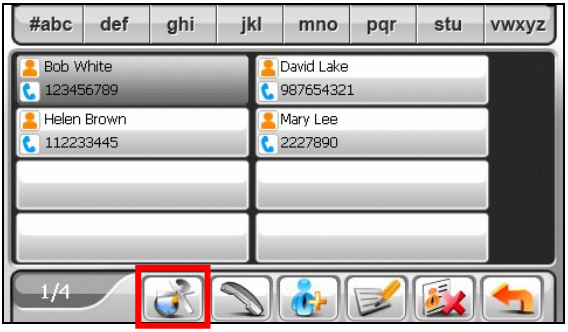
In the contact list, tapping a contact twice displays the summary screen of the contact.

6.4 Navigating to a Contact's Address

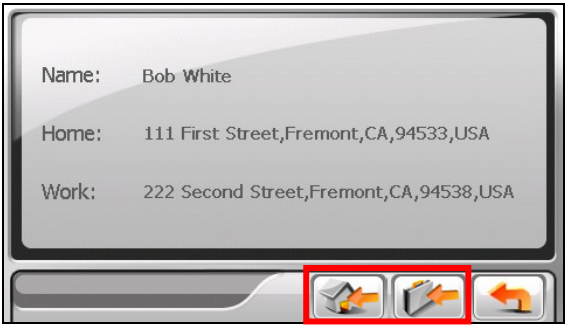
You can set a contact's address as your GPS navigation destination.

> **NOTE:** For the navigation software to navigate to an address in Contacts, there should be no Suite #, Apartment # or other additional information on the Street Address line, as these may prevent correct navigation. You might consider saving the additional Suite, Apartment or other numbers to a different field such as the "Department" field.

1. Tap the **Contacts** button on the Home screen to start the program.
2. In the contact list, select the desired contact and tap .



3. Tap to select the home address or to select the work address.



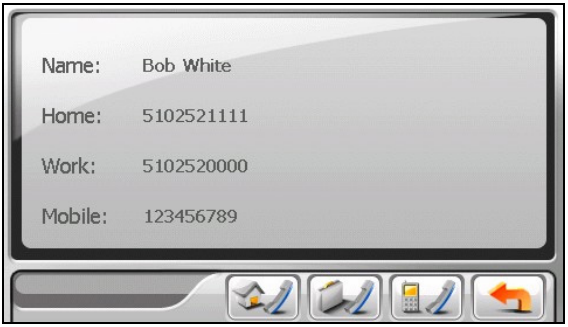
4. The navigation program starts. (See the document supplied with the navigation software for more information.)

6.5 Making a Phone Call to a Contact

1. Connect your device with a Bluetooth mobile phone as described in Section 7.2.
2. Tap the **Contacts** button on the Home screen to start the program.
3. In the contact list, select the desired contact and tap .

NOTE: The call button is available for use only when a Bluetooth mobile phone is connected.

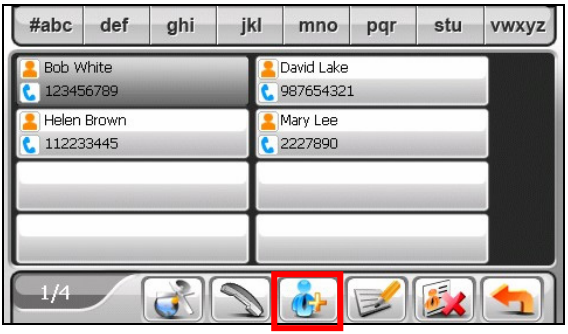
4. Tap to call the home number, the work number, or the mobile phone number.



6.6 Managing Contacts

Adding a Contact

1. Tap the **Contacts** button on the Home screen to start the program.
2. Tap .



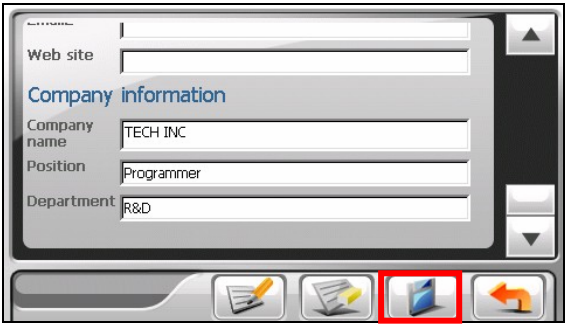
3. Tap an entry field twice. Or, tap a field and then tap .The soft keyboard appears.

4. Use the soft keyboard to enter the information in the field and tap ✓.

5. Enter the information in other fields such as address and phone number fields. You will need to scroll down to see all available fields.

> **NOTE:** When entering the address, the soft keyboard guides you through different parts of the address including country, city, street, and house number. After entering a part, tap ✓ to proceed to the next part.

6. Tap save the contact's information and return to the contact list.



Editing a Contact

To modify a contact's information:

1. In the contact list, tap the contact twice to open the summary screen.
   - or -
   In the contact list, tap the contact and then tap .
2. Tap twice the field you want to edit and use the soft keyboard to edit. If you want to clear a field, tap the field and then tap .
3. Tap to save the changes.

Deleting a Contact

In the contact list, select the contact you want to delete and tap .

7 Bluetooth

7.1 About Bluetooth Profiles

Your device incorporates Bluetooth wireless communications technology. Devices with Bluetooth capabilities can exchange information over a distance of about 10 meters (30 feet) without requiring a physical connection.

Your device supports Bluetooth profiles as below:

- **Hands-free Profile (HFP)**
  Allows your device to serve as a hands-free device for a Bluetooth mobile phone. You can tap your device to place and receive phone calls instead of picking up the mobile phone, and can use the built-in speakers and microphone for your conversation.
- **Advanced Audio Distribution Profile (A2DP)**
  Allows your device to transfer a 2-channel stereo audio stream, like MP3 music, to compatible Bluetooth stereo headsets or car stereos.

> **NOTE:** Not all Bluetooth devices support all profiles. Check the document of a Bluetooth device to know its Bluetooth capabilities.

7.2 Connecting a Bluetooth Mobile Phone

Connecting a Mobile Phone for the First Time

> **NOTE:** This chapter tells you how to initiate the Bluetooth connection from your device. If you want to initiate the Bluetooth connection from a Bluetooth mobile phone, make sure that your device is in discoverable mode. (See Section 11.8 for information.)

1. Make sure that the Bluetooth mobile phone is in discoverable mode.
2. Tap **Mobile Phone** on the Home screen.

If the Bluetooth radio is currently off, a message will pop up asking you to turn on the Bluetooth radio. Tap **Yes** to proceed.

> **NOTE:** When necessary, you can turn off the Bluetooth radio on your device. (See Section 11.8 for information on Bluetooth settings.)

3. The program will search for nearby Bluetooth mobile phones if this is the first time you try to connect a mobile phone.

NOTE: If no device is detected, the screen shows the shortcut menu. (See the shortcut descriptions later in this section.)

4. The search result will show on the screen. Tap the mobile phone you want to connect.

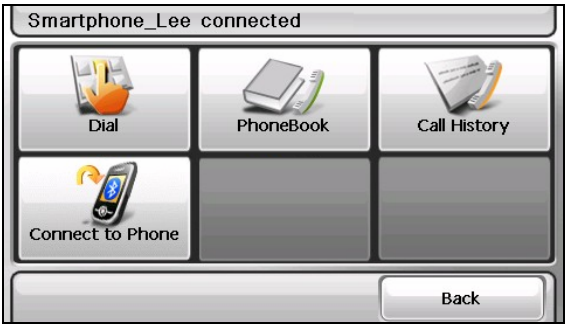
5. Tap the soft keyboard to enter the passkey (within 16 characters).

6. Enter the same passkey on your Bluetooth mobile phone so that the connection can be established. Depending on the mobile phone model, you may need to select the hands-free service to complete the connection.

7. When the connection is completed, a message will appear on the screen. Tap **Yes**.

8. The shortcut menu appears with the name of the connected device on top of the screen. A check mark indicates that the device is connected. Tap **Back** to display the Mobile Phone main menu.

9. In the Mobile Phone main menu, you can place phone calls by tapping buttons on the screen. (See Section 7.3 for information.)

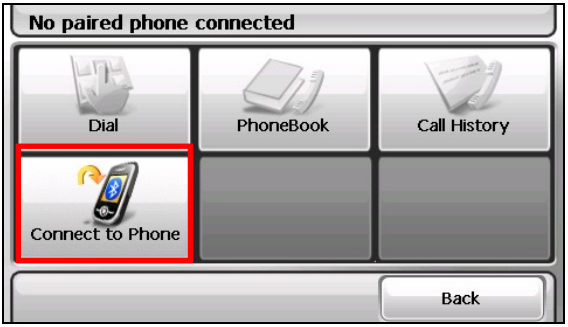


10. You can tap **Back** to minimize the screen and use other functions of the device.

Connecting a Different Mobile Phone

To connect a mobile phone that is not already in the shortcut list:

1. If you are in the Mobile Phone main menu, tap **Connect to Phone**.



2. In the shortcut menu, tap **Find Others**.

Using the Mobile Phone Shortcut

Once a Bluetooth connection has been established, the shortcut will be saved. When you next tap the **Mobile Phone** button on the Home screen, the program will try to connect the last paired mobile phone.

You can also tap a particular shortcut button in the shortcut menu to connect the particular mobile phone.

Delete the selected shortcut.

NOTE:
- All shortcuts will be cleared if you shut down the device.
- The program can save up to 15 shortcuts. A 16th shortcut will replace the oldest one.

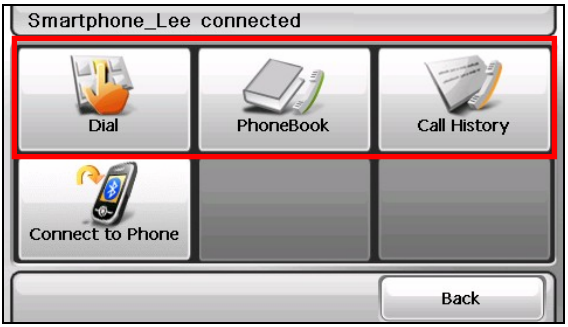
Disconnecting the Mobile Phone

Tap the connected device in the shortcut menu and tap **Disconnect** when the message appears asking you to select your operation.

7.3 Phone Operations

Placing a Call

After pairing with a mobile phone (as described in Section 7.2), you can place a call with the onscreen keypad, phone book, or call history.



Dial

By tapping the **Dial** button in the Mobile Phone main menu, you can enter the telephone number with the onscreen keypad. After entering the telephone number, tap to place the call.

NOTE:
- International calls require a country code to be included in the phone number. On your device, the country code is separated from the rest of the number sequence by a plus (+) sign. If you are making an international call, tap and hold the **0** key until the + sign appears.
- To delete the last digit entered, tap the **Backspace** button. Tap and hold the button for about 1 second will clear the entire number.

Phone Book

By tapping the **Phonebook** button on the Mobile Phone main menu, you can select a phone number to call.

The program can display two types of phone books.

- **Local phone book**
  This is the phone book from the device's Contacts program. (See Chapter 6.)
- **Remote phone book**
  This is the phone book downloaded from the mobile phone during the first time connection. Depending on your mobile phone, this type of information may not be downloadable.

NOTE:
- When a mobile phone different from the previous one is connected, a message will appear asking if you want to replace the previous remote phone book with the current remote phone book.
- If you need to refresh the remote phone book, tap **Get Phone Number** to download the phonebook from the mobile phone again.

This icon indicates a contact from the mobile phone's phone book.

When a contact has more than one phone numbers, all numbers will appear in the list with the letter "m" meaning mobile phone, "h" meaning home, and "w" meaning work.

On the phonebook screen, tap the phone number to call.

NOTE: To remove the mobile phone's phone book from your device, use Bluetooth settings as described in Section 11.8.

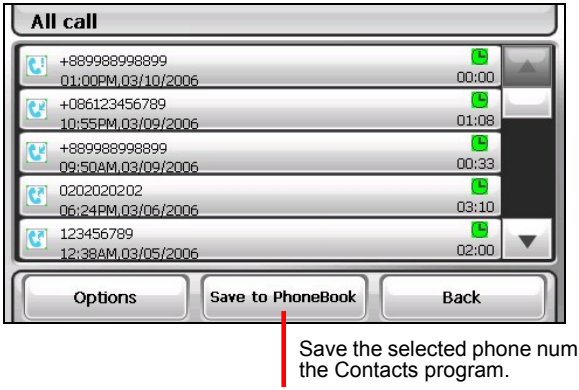
Call History

By tapping the **Call History** button on the Mobile Phone main menu, you can select a recent phone number to call.

The program can display two types of call history.

- **Local call history**
  This is the call history from your device.
- **Remote call history**
  This is the call history from the connected mobile phone. Depending on your mobile phone, this type of information may not be downloadable.

NOTE: When a mobile phone different from the previous one is connected, a message will appear asking if you want to replace the previous remote call history with the current remote call history.

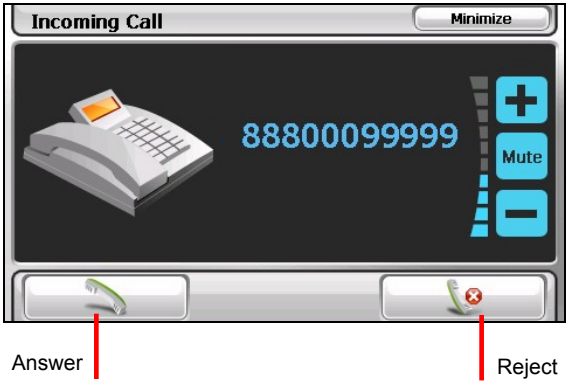


By default, the list shows the incoming, outgoing, and missed calls. You can filter the calls by tapping **Options**.

NOTE: To clear the call history, use Bluetooth settings as described in Section 11.8.

Receiving a Call

After pairing with a mobile phone (as described in Section 7.2), your device will ring and display the incoming call screen when there is an incoming call.



To receive the call, tap . To reject the call, tap .

NOTE: You can have the device automatically answer an incoming call. (See Section 11.8.)

Operations during a Call

During a phone call:

- If you need to input other numbers, such as an extension number, tap **Keyboard** to open the keypad and tap the digits.

- Tap **Mute** to mute your sound so that the other party cannot hear you. To end the mute mode, tap the button again.
- Tap to end the call.
- Tap **Voice to Phone** to switch the call to your mobile phone. To transfer back, tap the button again.
- Tap **Minimize** to minimize the screen and to back to the previous screen.

7.4 Connecting a Bluetooth Headset

Connecting a Headset for the First Time

1. Make sure that the headset to connect is a stereo Bluetooth headset.
2. Tap **Stereo** on the Home screen.

If the Bluetooth radio is currently off, a message will pop up asking you to turn on the Bluetooth radio. Tap **Yes** to proceed.

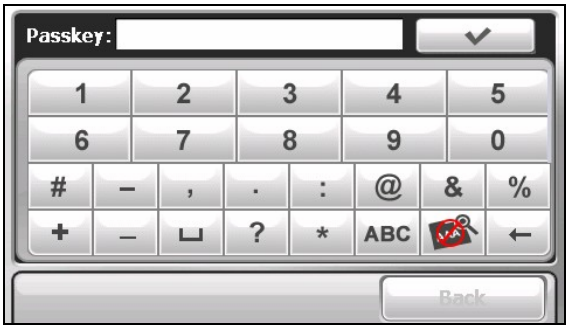
> **NOTE:** When necessary, you can turn off the Bluetooth radio on your device. (See Section 11.8 for information on Bluetooth settings.)

3. The program will search for nearby Bluetooth headsets if this is the first time you try to connect a headset.

> **NOTE:** If no device is detected, the screen shows the shortcut menu. (See the shortcut descriptions later in this section.)

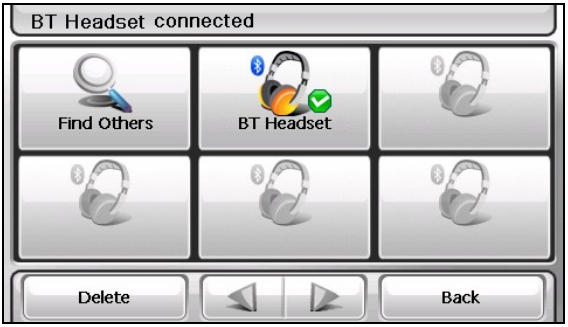
4. The search result will show on the screen. Tap the headset you want to connect.

5. Tap the soft keyboard to enter the passkey. (Check the headset manual for the passkey.)



6. When the connection is completed, a message will appear on the screen. Tap **Yes**.

7. The shortcut menu appears with the name of the connected device on top of the screen. A check mark indicates that the device is connected.



8. You can tap **Back** to go back to the Home screen.

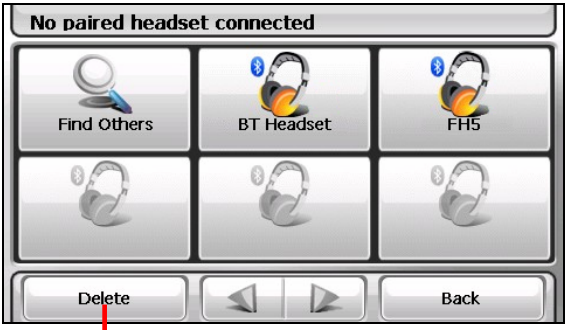
Connecting a Different Headset

To connect a headset that is not already in the shortcut list, tap **Find Others** in the shortcut menu.

Using the Headset Shortcut

Once a Bluetooth connection has been established, the shortcut will be saved. When you next tap the **Connect to Headset** button on the Home screen, the program will try to connect the last paired headset.

You can also tap a particular shortcut button to connect the particular headset.



Delete the selected shortcut.

NOTE:
- All shortcuts will be cleared if you shut down the device.
- The program can save up to 15 shortcuts. A 16th shortcut will replace the oldest one.

Disconnecting the Headset

Tap the connected device in the shortcut menu and tap **Disconnect** when the message appears asking you to select your operation.

8 Card Scanner

8.1 Starting and Exiting Card Scanner

Card Scanner allows you to photograph a business card, recognize its contents, and then store the information to your Contacts database.

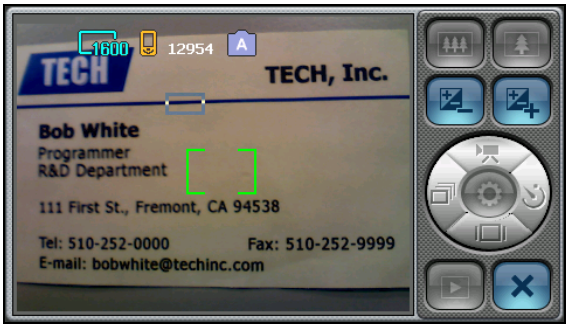
Tap **Tools** on the Home screen and then tap **Card Scanner** to start the program.

The initial screen appears.

To exit the program, tap .

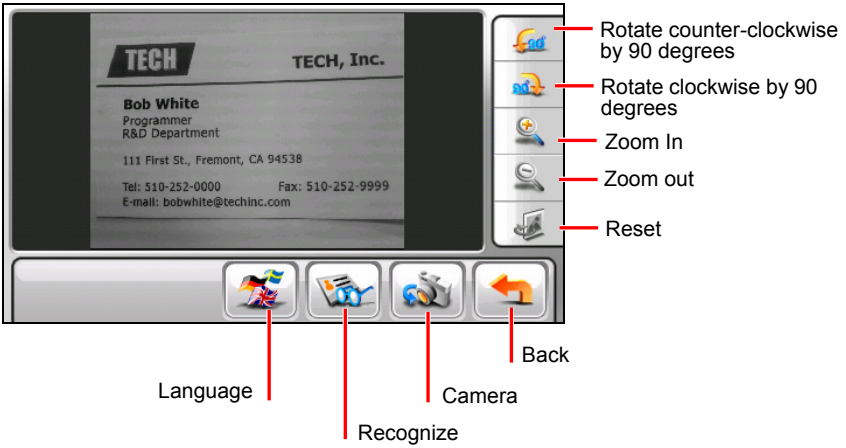
8.2 Using the Card Scanner

1. Tap **Tools** on the Home screen and then tap **Card Scanner** to start the program.
2. Tap . You will see the Camera screen (with limited functions).
3. Aim the camera lens at the business card. When ready, press lightly (halfway down) on the Camera button and hold. A red focus bracket ([ ]) will appear in the center of the screen. When the color of the bracket changes from red to green ([ ]), focusing is completed. Now press fully down on the Camera button to take the photo. The system will play a sound to indicate that the shutter has been released.



NOTE: In the Camera screen. Only the , and buttons are available.

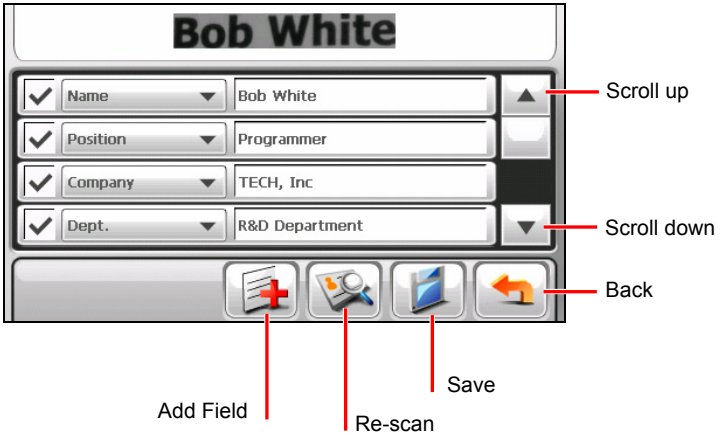
4. After taking the photo, you will see the image screen.



5. Tap to choose the language.

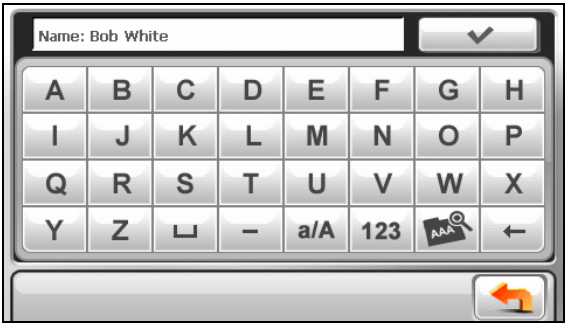
6. Tap to scan the text and numbers on the business card.

7. The program tries to recognize the text and numbers. When succeeded, it displays the output screen with data falling into different categories.



8. If a category doesn't match the data, you can tap the down arrow button in the left column and select the correct category. Tap to confirm your selection.

9. If any text or number is not recognized correctly in a field on the right, you can edit it by tapping the field and then entering the correct content in the input area. When the input is completed, tap ✓.



10. If there is missing or incorrect data that needs to be re-scanned, tap to choose the area you wish to re-scan. (See Section 8.3 for more information.)
11. If you wish to manually enter information not provided on the business card, tap . (See Section 8.4 for more information.)
12. Once all the information is correct and ready, check (✓) the fields that you wish to export, and tap . The selected data will be exported to the device's Contacts database.
13. To exit the program, select .

When you next start Contacts, you will see the newly added information in your contacts list.

Important Notes

Due to a variety of business card formats, font styles and sizes, the way some addresses are broken up on the card, or background artwork, the Card Scanner program may not always recognize business cards perfectly.

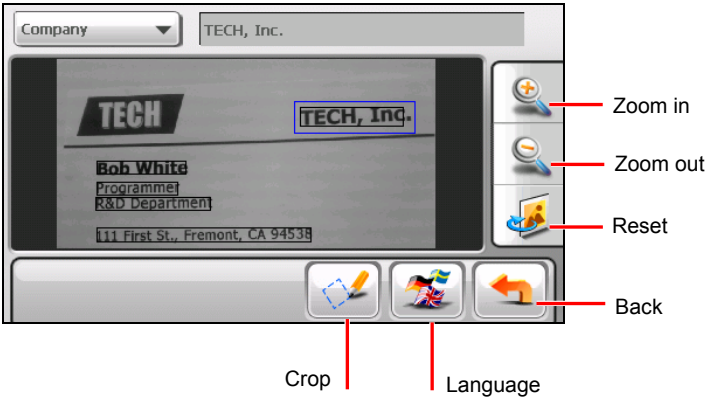
After scanning your card and saving the data, it is important that you open Contacts and use the edit function to make sure that the various address fields contain the correct data.

For the navigation software to navigate to an address in Contacts, there should be no Suite #, Apartment # or other additional information on the Street Address line, as these may prevent correct navigation. You might consider saving the additional Suite, Apartment or other numbers to a different field such as the "Department" field.

8.3 Manually Scanning a Specific Area

If there is missing or incorrect data that needs to be re-scanned, you can manually select the area to be scanned. Only one part can be scanned at a time.

1. In the output screen, tap to open the Re-scan screen. The black boxes around the text/number indicate fields that have already been recognized.
2. You can zoom in or drag the screen to the appropriate area. You may also need to specify a language.
3. Tap .
4. For the area you wish to re-scan, select its category from the categories list and tap .
5. Use your fingertip to drag and create a border around the part that you wish to re-scan. This border will be in blue and once you complete dragging, the program will begin recognizing the text/number inside.
6. The result will display in the data field at the top of the screen. Tap to confirm.

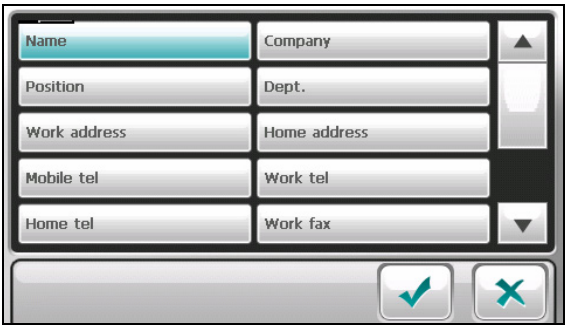


8.4 Adding Card Information

You can also manually enter information not provided on the card.

1. In the output screen, tap . A list of available categories appears.

2. Select the category you wish to add and tap .



3. Tap the blank input field on the right and when the soft keyboard appears, enter the data.

4. Once input is complete, tap ✓ to save your input and return to the output screen. The category and data that you have entered will appear in the list.

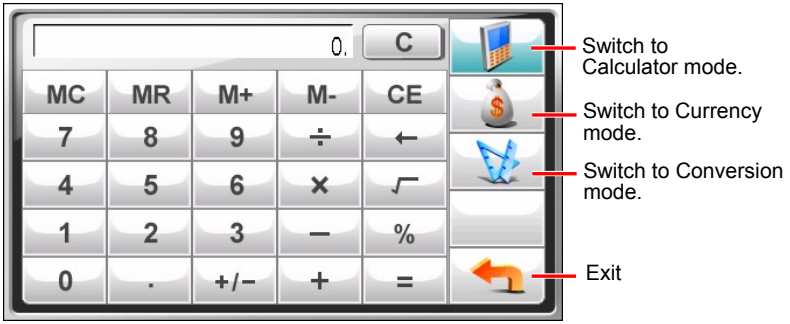
9 Calculator

9.1 Starting and Exiting Calculator

Calculator provides three modes: **Calculator**, **Currency**, and **Conversion.** You can use these modes to perform basic arithmetic, currency conversion, and measure conversion functions.

Tap **Tools** on the Home screen and then tap **Calculator** to start the program.

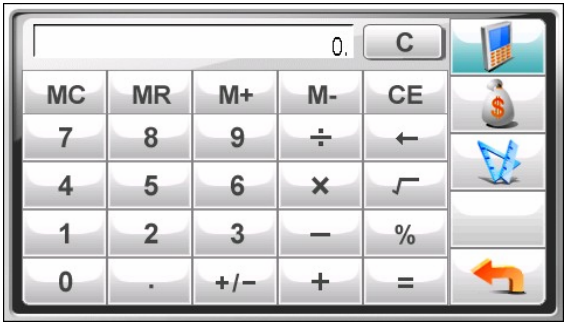
You will see the calculator screen. To switch to another mode, tap one of the buttons at the top right corner of the screen.



To exit the program, tap .

9.2 Using the Calculator Mode

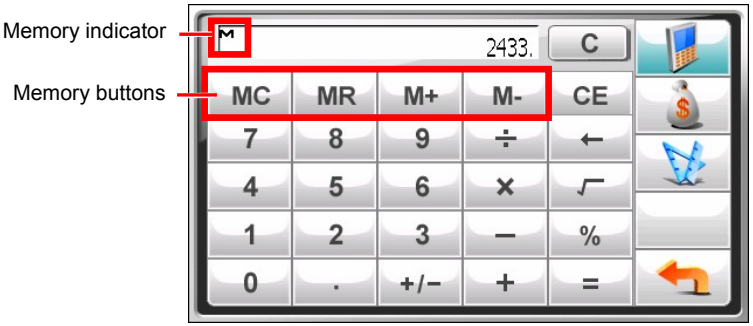
The Calculator mode allows you to perform any of the standard operations for which you would normally use a handheld calculator.



If you are currently not in the Calculator mode, tap the button.

Tap the numeric keypad to enter numbers and mathematical symbols. Then tap the = button to generate the result.

Calculator Memory

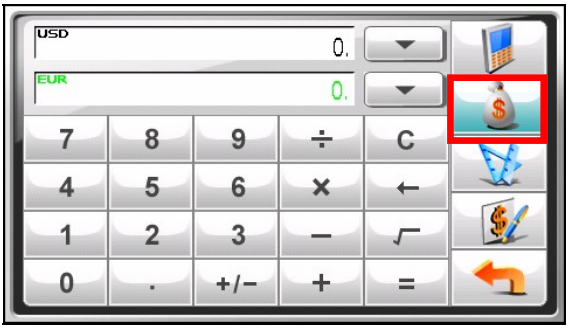


Button	Name	Description
MC	Memory Cancel	Clears the value in memory.
MR	Memory Recall	Shows the value in memory.
M+	Memory Plus	Adds the current value to the value in memory.
M-	Memory Minus	Subtracts the current value from the value in memory.

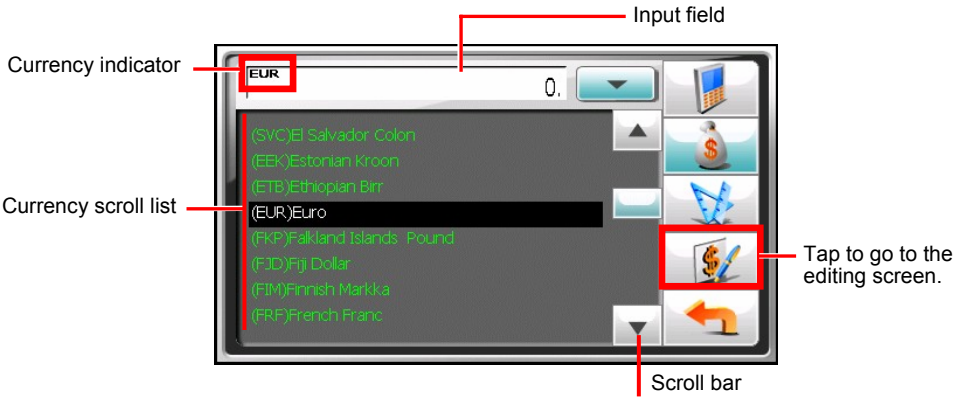
9.3 Using the Currency Mode

Use the Currency mode to perform the currency conversion. You can also edit the exchange rate.

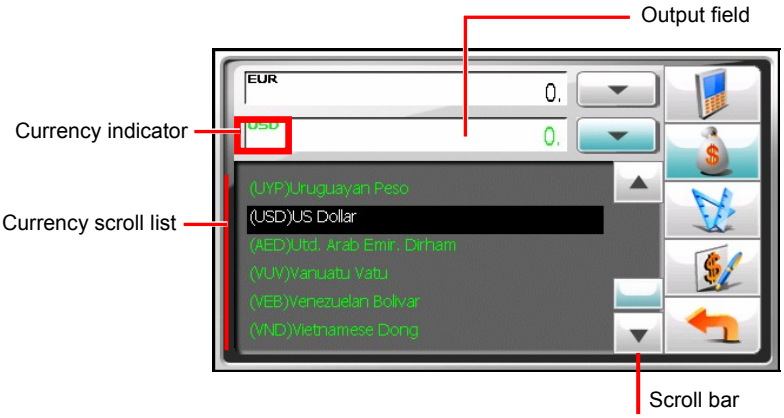
1. Start the Calculator program as described in Section 9.1.
2. Tap to switch to the Currency mode.



3. Tap the down arrow next to the input field to display a list of currencies and select the currency to convert from. When a currency is selected, the abbreviation of the currency will be displayed on the upper left corner of the input field.



4. Tap the down arrow next to the output field to display a list of currencies and select the currency to convert to. When a currency is selected, the abbreviation of the currency will be displayed on the upper left corner of the output field.



5. Enter the currency value in the input field by tapping the number buttons on the numeric keypad. You can also perform basic arithmetic in the input field.

   The converted currency immediately appears in the output field.

NOTE: The program uses the default exchange rates unless you change them. (See the sub-section below for information.)

Editing Exchange Rate

Before performing the currency conversion, you can edit the exchange rate to the most up-to-date one.

1. Tap on the Calculator screen.
2. Select the source and target currency.
3. Tap .

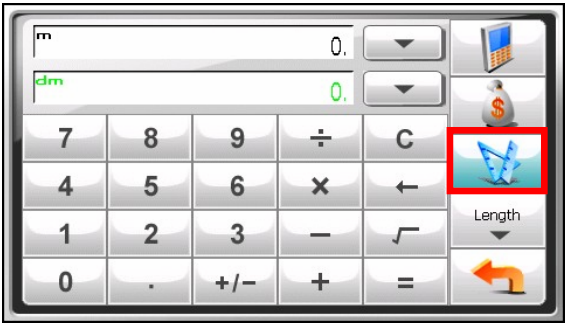
4. Enter the exchange rate and tap to save the changes and go back to the previous screen.

9.4 Using the Conversion Mode

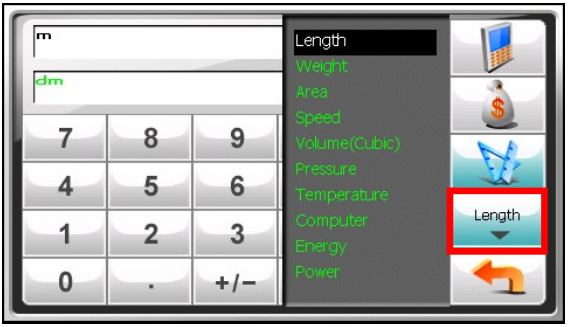
The Conversion mode allows you to convert measures from one unit to another.

1. Start the Calculator program as described in Section 9.1.

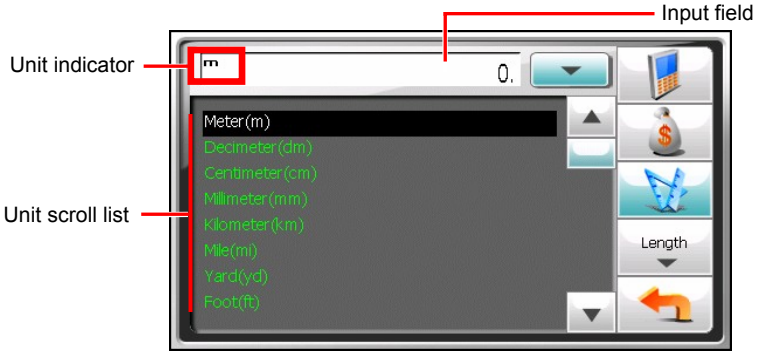
2. Tap to switch to the Conversion mode.



3. Tap the measure button to display a scroll list of measures. Select the desired measure from the list.



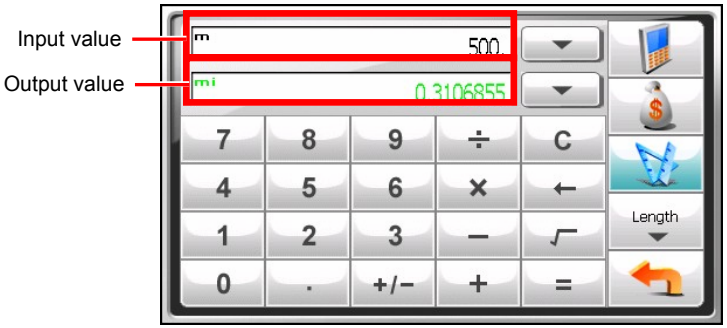
4. Tap the down arrow next to the input field to display a list of units and select the unit to convert from. When a unit is selected, the abbreviation of the unit will be displayed on the upper left corner of the input field.



5. Tap the down arrow next to the output field to display a list of units and select the unit to convert to. When a unit is selected, the abbreviation of the unit will be displayed on the upper left corner of the output field.

6. Enter the value in the input field by tapping the number buttons on the numeric keypad. You can also perform basic arithmetic in the input field.

   The converted value immediately appears in the output field.



10 File Manager

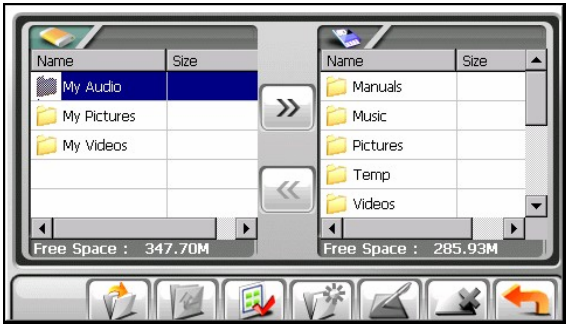
10.1 Starting and Exiting File Manager

File Manager allows you to transfer multimedia files between your device and a storage card.

> **NOTE:** To transfer multimedia files between your device and a computer, please install the provided MioTransfer program. (See Chapter 12.)

Tap **Tools** on the Home screen and then tap **File Manager** to start the program.

The File Manager screen shows specific folders of your device in the left column and the folder(s)/file(s) of the storage card, if inserted, in the right column.



> **NOTE:** The left column shows only "specific" folders in the **My Flash Disk** of your device. "Specific" folders refer to pre-defined data folders for multimedia programs (such as **My Audio** folder for the Audio program). Other folders are not accessible within the File Manager program.

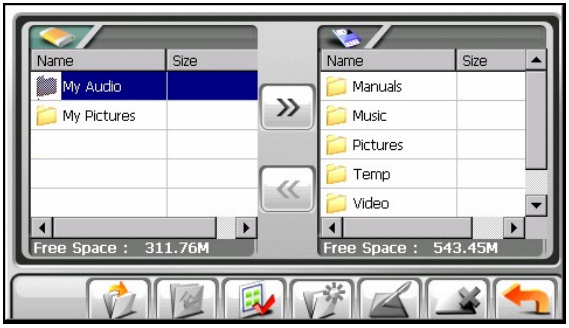
To exit the program, tap .

10.2 Transferring Files

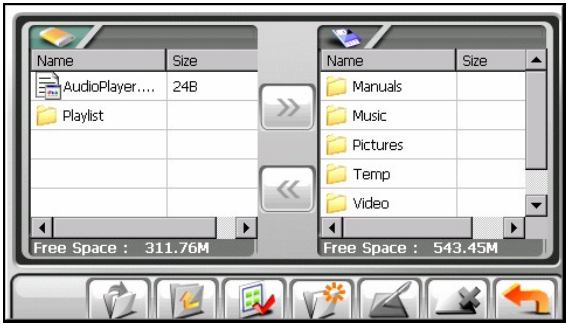
From the Storage Card to Your Device

1. Insert the storage card.
2. Tap **Tools** on the Home screen and then tap **File Manager** to start the program.

   By default, the first folder of your device's **My Flash Disk** is highlighted.

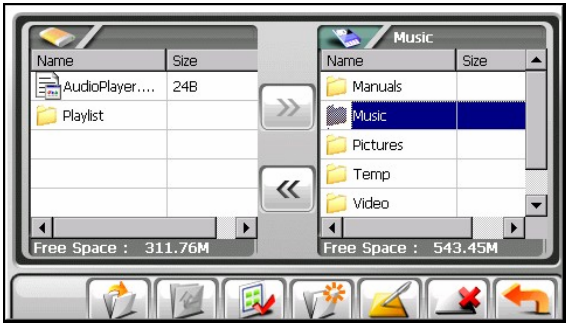


3. To select the target folder, tap twice the folder in the left column to open it. Or, tap the folder and then tap to open the folder.



4. If the source file is in a folder of the storage card, tap twice the folder in the right column to open the folder. Or, tap the folder and then tap to open the folder.

   If you want to select all folders, tap .



5. Select your source file by tapping it in the right column.

   If you want to select all files, tap .

NOTE: To go up one level, tap .

6. Tap to copy the selected file to the target folder.

From Your Device to the Storage Card

Use the same method as described in the previous sub-section to copy files from your device to the storage card except that the direction is from the left column to ( ) the right column.

10.3 Managing Folders and Files

In addition to copying files, File Manager provides the below functions:

- **Rename**
  Changes the name of the selected folder/file.
- **Delete**
  Deletes the selected folder/file.
- **New Folder**
  Creates a new folder in the selected folder.

NOTE: You cannot rename or delete the pre-defined folders of your device. You cannot create new folders in the root level of your device.

11 Settings

11.1 Starting and Exiting Settings

You can customize the system settings such as backlight brightness, volume, and language. Once you change the settings, the new settings will remain until you change them again.

Tap the **Settings** button on the Home screen. The Settings menu appears as shown below.

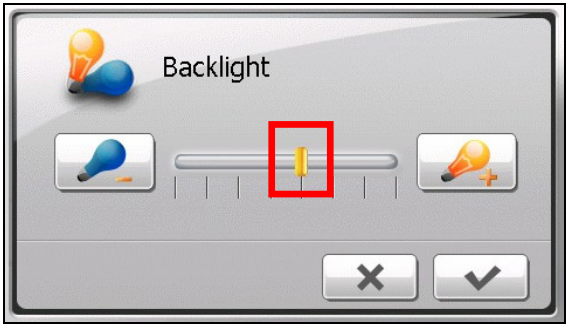
To exit Settings, tap .

The following sections describe the various buttons and their functions.

11.2 Backlight

1. Tap the **Settings** button on the Home screen.
2. Tap the **Backlight** button.

3. Move the knob along the track bar to adjust the brightness of the backlight. To darken the backlight, move the knob to the left. To lighten the backlight, move the knob to the right.



4. Tap to save the changes.

11.3 Volume

1. Tap the **Settings** button on the Home screen.
2. Tap the **Volume** button.

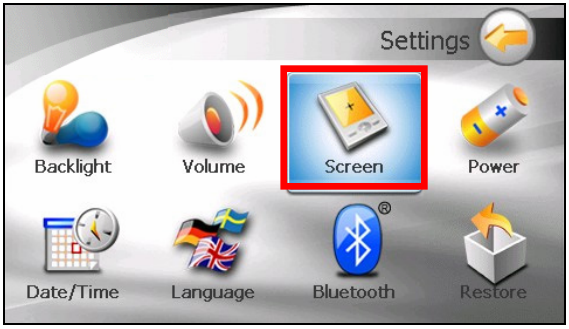
3. Move the knob along the track bar to adjust the volume. To decrease the volume, move the knob to the left. To increase the volume, move the knob to the right.

4. Tap save the changes.

11.4 Screen

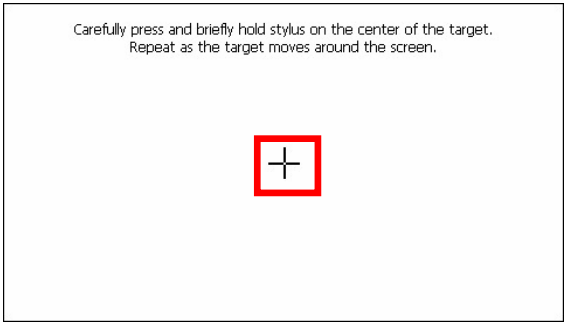
You can calibrate the touch screen if it is not responding accurately to your taps.

1. Tap the **Settings** button on the Home screen.
2. Tap the **Screen** button.



3. Tap to start the calibration.

4. Tap and hold the centre of the target.



5. When the target moves to another position, tap and hold the centre of the new target. Repeat each time to complete the calibration process.

6. When completed, tap .

11.5 Power

To check the remaining power level of your battery and/or set up the power saving feature:

1. Tap the **Settings** button on the Home screen.

2. Tap the **Power** button.

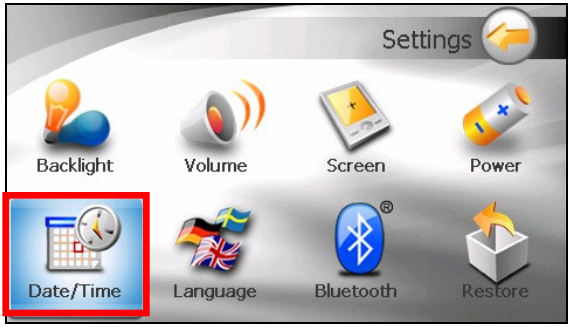
3. The screen shows the remaining power of your battery.

   You can set a timer to automatically turn off your device when it is idle for a set period of time. The options include **Never, 30 minutes**, **20 minutes**, and **10 minutes**.

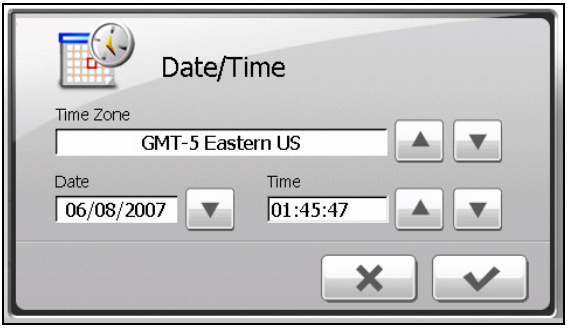
4. Tap to save the changes.

11.6 Date/Time

1. Tap the **Settings** button on the Home screen.
2. Tap the **Date/Time** button.

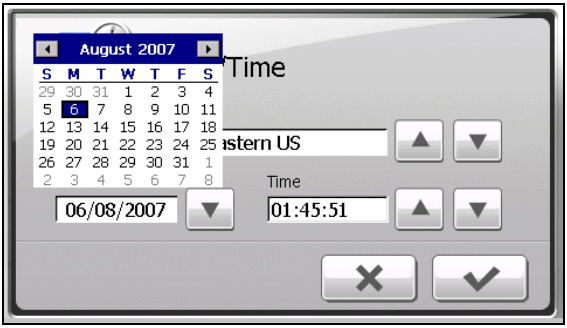


3. To change the time zone, tap the arrow in the “Time Zone” item.



4. To change the date, tap the down arrow in the “Date” item. A calendar pops up. Tap the left arrow on the calendar to go to the earlier month and year or the right arrow to the later month and year. Alternatively, you can tap the month or year on top of the calendar to directly change the month or year.

   When the calendar shows the current month, tap the date on the calendar.



5. To set the time, first tap the hour, minute, or second in the “Time” item and then tap the up arrow to increase or down arrow to decrease the value.

6. Tap to save the changes.

11.7 Language

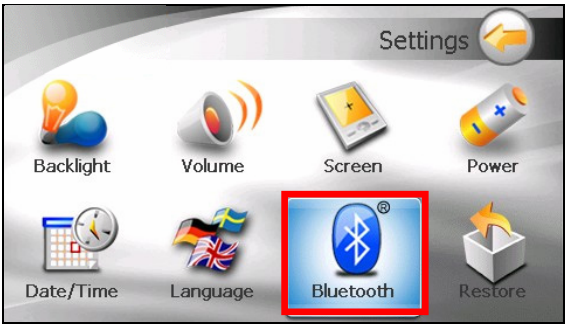
1. Tap the **Settings** button on the Home screen.
2. Tap the **Language** button.

3. Tap the up/down arrow button to select the desired language.

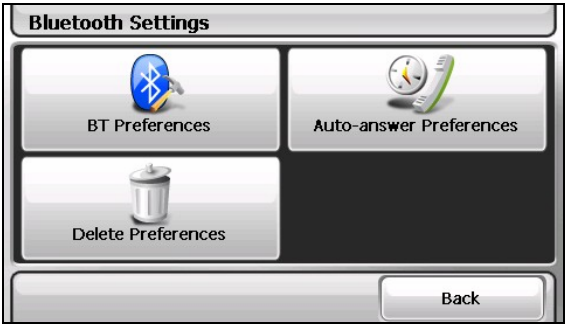
4. Tap to save the changes.

11.8 Bluetooth

1. Tap the **Settings** button on the Home screen.
2. Tap the **Bluetooth** button.



3. The “Bluetooth Settings” screen contains 3 buttons as described below.



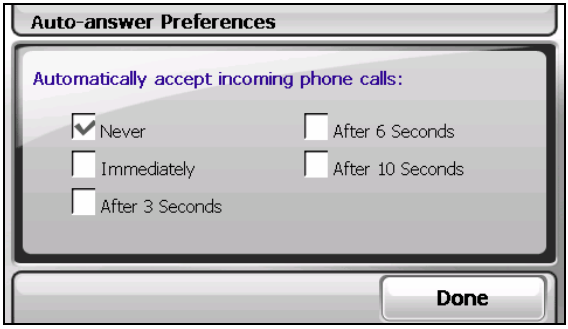
4. After you complete your settings in a screen, tap **Done**.
5. Tap **Back** to go back to the Settings screen.

BT Preferences

The setting items in the “BT preferences” screen are:

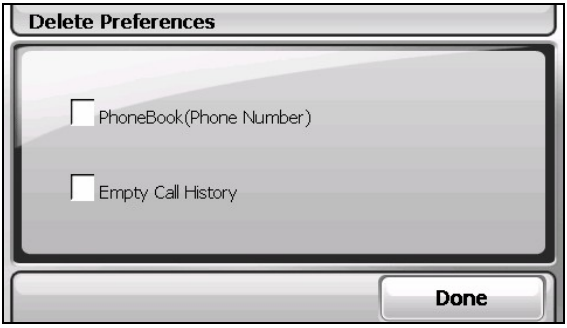
- **Name**
  Tap twice this field if you want to rename the Bluetooth device name. A soft keyboard appears for you to enter the new name.
- **Enable Bluetooth**
  The Bluetooth radio is on when this item is checked. Uncheck this item if you want to turn off the Bluetooth radio.
- **Discoverable Bluetooth**
  Check this item to make your device discoverable for other Bluetooth devices. You can check this item only if the previous item is enabled.

Auto-answer Preferences



You can specify how soon your device automatically answers an incoming call. If you want to manually answer a call, select **Never**.

Delete Preferences



Whenever you want to delete particular data as listed below, check the corresponding item(s) in the "Delete preferences" screen.

- Phonebook (phone number)
- Empty call history

A message will appear on the screen asking if you want to permanently delete the data. Tap **OK**.

11.9 Restore

To restore the settings to factory default values:

1. Tap the **Settings** button on the Home screen.
2. Tap the **Restore** button.

Settings
Backlight
Volume
Screen
Power
Date/Time
Language
Bluetooth
Restore

3. Tap .

12 MioTransfer

12.1 Installing MioTransfer

MioTransfer allows you to easily transfer data such as MP3 and photos between your device and a computer. To install MioTransfer to your computer:

1. Turn on your computer and insert the supplied CD/DVD into the CD/DVD-ROM drive of your computer.
2. When the language selecting screen appears, click the language that you wish to install from.
3. Click **Install MioTransfer**.
4. Click **Next**. Follow the onscreen instructions to complete the installation.

> **NOTE:** If MioTransfer has already been installed on your computer, clicking **Install MioTransfer** will remove the application from your system.

12.2 Starting and Exiting MioTransfer

Click **MioTransfer** icon on the Windows Desktop to start the program. The MioTransfer screen appears.

It provides the following tools:

- **Audio**
  Allows you to transfer the audio files between your device and your computer. (See section 12.3 for details.)
- **Videos**
  Allows you to transfer video files between your device and your computer. (See Section 12.3 for details.)
- **Pictures**
  Allows you to transfer pictures between your device and your computer. (See section 12.3 for details.)
- **Contacts**
  Allows you to copy the **Microsoft Outlook Contacts** information from your computer to your device. (See section 12.4 for details.)

- **Mio Online**
  Provides link to the Mio website.

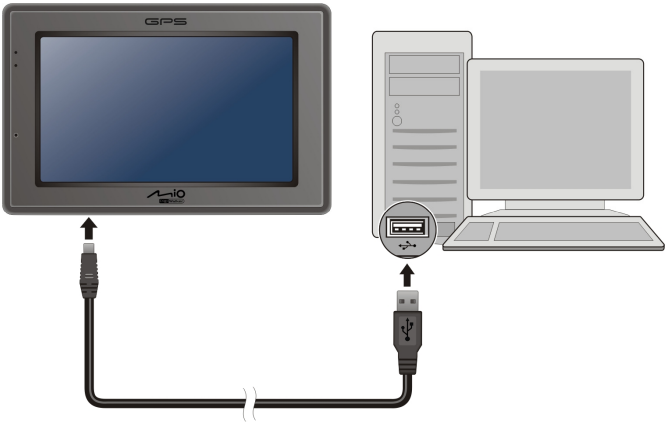
To exit MioTransfer, click **Exit** at the bottom right corner of the screen.

> **CAUTION:** Before disconnecting the cable, you must click the device icon in the task bar and click "Safely remove *xxx*" (where *xxx* is the name of your device). If you are transferring data, disconnecting the cable without following the correct removal procedure can result in data loss.

12.3 Copying Multimedia Files to Your Device

Before playing multimedia files such as MP3 files, you need to have the files ready on your device. Use MioTransfer to copy the files from your computer to the correct location on your device.

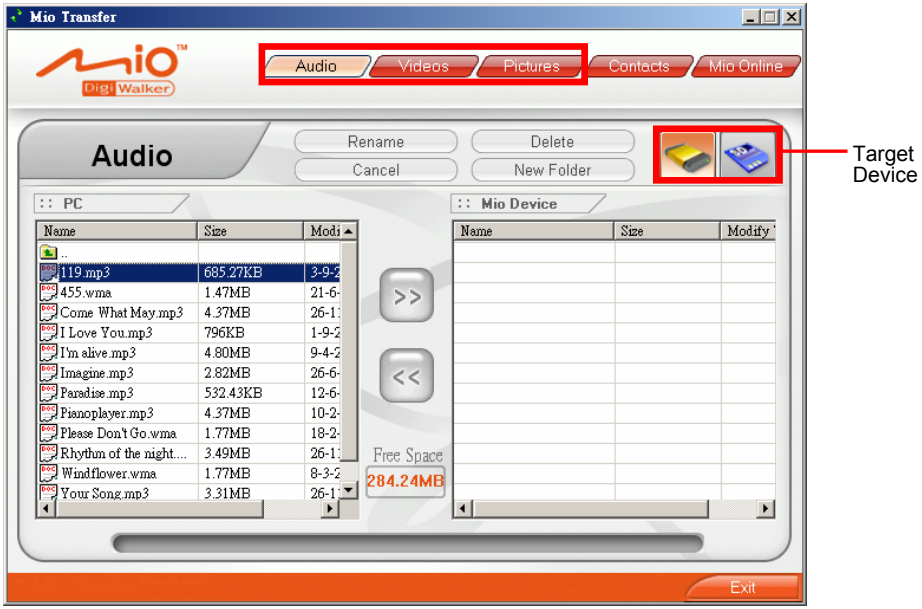
1. If you want to copy files to a storage card, insert the card to your device.
2. Turn on your computer and your device.
3. Connect the mini-USB end of the USB cable to the bottom of your device and the other end to a USB port on your computer.



4. Start MioTransfer by clicking **MioTransfer** icon on the Windows Desktop. The MioTransfer screen appears.
5. Select the type of file to copy:
   - To copy audio files, click **Audio** on the top menu bar.

- To copy video files, click **Videos** on the top menu bar**.**
- To copy photos or pictures, click **Pictures** on the top menu bar**.**

The left column shows the drives of your computer and the right column shows the files in the appropriate folder of the target device (either or).



6. Select your target device by clicking one of the icons:
   - - the flash memory of your device
   - - a storage card inserted into your device.
7. Select the folder where your audio or picture files are from the left column. Select the file you want to copy and tap . The status bar will indicate the progress of file transfer and the selected file will be copied to the target device.

> **NOTE:** You can also copy files from your device to your computer. First select the file you want to copy from the right column and select a folder on the left column to place these files. Then click to start the file transfer.

Managing Files

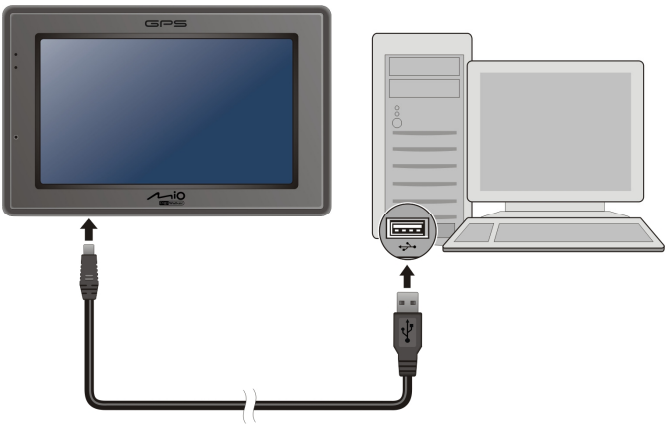
Various buttons are available for you to manage the files:

- **Rename**
  Changes the name of the selected file.
- **Delete**
  Removes the selected file.
- **Cancel**
  Aborts the ongoing action of file transfer.
- **New Folder**
  Creates a new folder in the selected drive or folder.

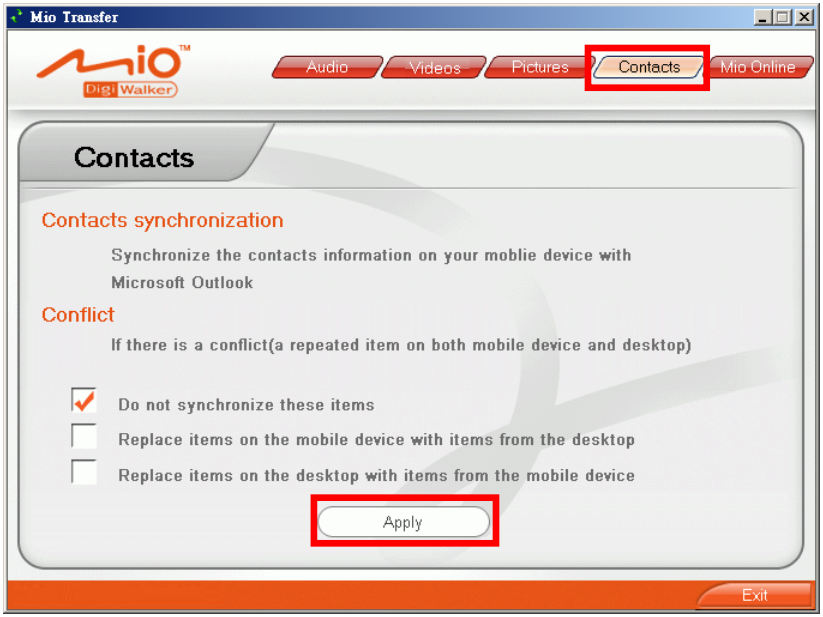
12.4 Copying Contacts Information to Your Device

You can copy the Microsoft Outlook Contacts information from your computer to your device using MioTransfer. This saves you the time for entering the information all over again on your device or on your computer. (For information on Contacts, see Chapter 6.)

1. Turn on your computer and your device.
2. Connect the mini-USB end of the USB cable to the bottom of your device and the other end to a USB port on your computer.



3. Start MioTransfer by clicking **MioTransfer** icon on the Windows Desktop. The MioTransfer screen appears.
4. Click **Contacts** on the top menu bar.
5. Select your option and click **Apply**.



13 Video ToolBox

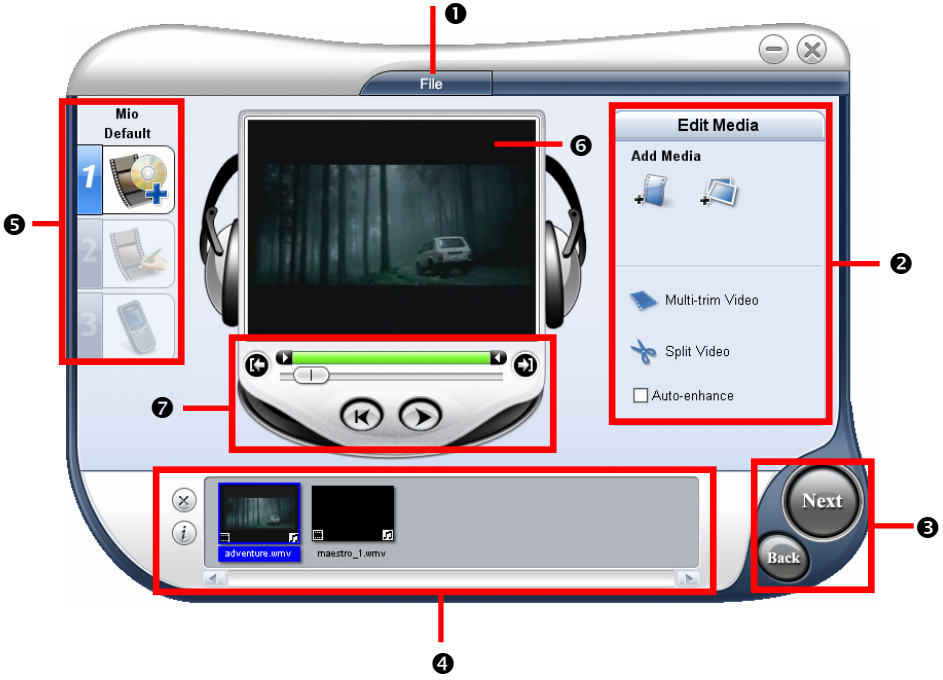
13.1 About Video ToolBox

Video ToolBox allows you to import media in a variety of sources and save it in a specific file format so you can watch the video on your device. You can also use the editing tools such as trimming the clip and adding special effects to create a customized project.

13.2 Installing Video ToolBox

1. Turn on your computer and insert the supplied CD/DVD into the CD/DVD-ROM drive of your computer.
2. When the Language Selecting screen appears, click the language that you wish to install from.
3. Click **Install Video Toolbox** and follow the onscreen instructions to finish the installation.

13.3 User Interface



Ref	Name	Description
❶	**File menu**	Select to open a menu where you can save your project file and set project preferences.
❷	**Options Panel**	Displays controls, buttons, and other information that you can use to customize the project. The contents of this panel change depending on the step you are in and the selected project element.
❸	**Step buttons**	Click to go to the next or previous step.
❹	**Media Clip List**	Displays the clips, transition effects and text that are used in the project. Click ⊗ to remove the clip from the Media Clip List or click ⓘ to view the selected clip's properties.
❺	**Step Panel**	Displays buttons that correspond to the different video editing steps.
❻	**Preview Window**	Displays the video playback.
❼	**Navigation Panel**	Displays buttons for playback and trimming clips.

13.4 Four Steps to Create a Video File

Step 1: Determine Video Output Setting

1. On Windows desktop, click **Start → Programs → Ulead Video ToolBox → Ulead Video ToolBox**.
2. On the first screen, click **Next**.

Step 2: Add/Edit Media Clip

3. Click one of the **Add Media** buttons depending on your media source.
   - To add a video file, click .
   - To add an image file, click .

   Locate the file and click **Open/OK**.

4. Click **Next** to continue.

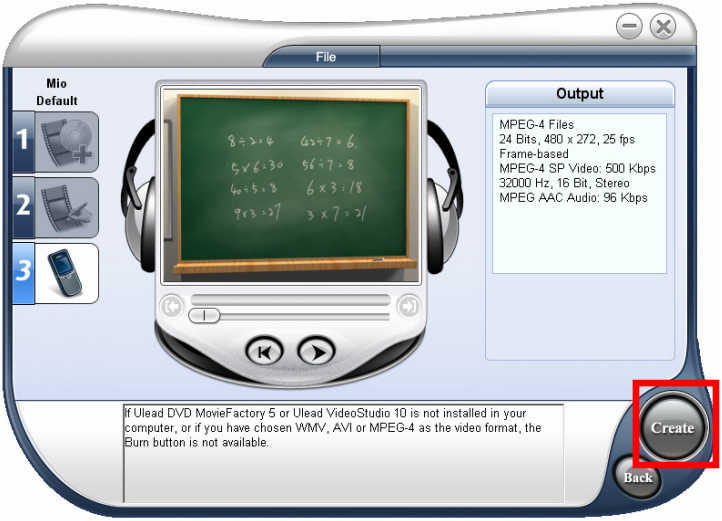
Step 3: Choose Style

5. If you want, you can choose a movie style from the available themes and edit movie style elements. If you do not want to apply a style for your project, select the default white theme. (See Section 13.7 for details.)

6. Click **Next** to continue.

Step 4: Create Video File

7. Click **Create** to save your video file in the selected output video format.



8. In the dialog box, enter the filename and click **Save**.

13.5 Editing Video Clips

When video clip(s) are added, the editing tools include:

- **Multi-trim Video**
  Allows you to choose desired segments from a video file and extract them.
- **Split Video**
  Cuts the selected clip into two.
- **Auto-enhance**
  Select to automatically adjust the hue, saturation, brightness and the contrast of the clip.

Trimming a Clip

To split a video clip:

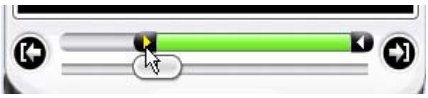
1. Select the clip you want to split on the Media Clip List.
2. Drag the Jog Bar to the point where you want to cut the clip.

3. Click **Split Video** to cut the clip into two clips.

   To remove one of these clips, select the unwanted clip and click ⊗ .

To trim a video clip with the Trim Bar:

1. Select the clip you want to split on the Media Clip List.
2. Click and drag the Trim handles on the Trim Bar to set the Mark-in/Mark-out points on the clip.

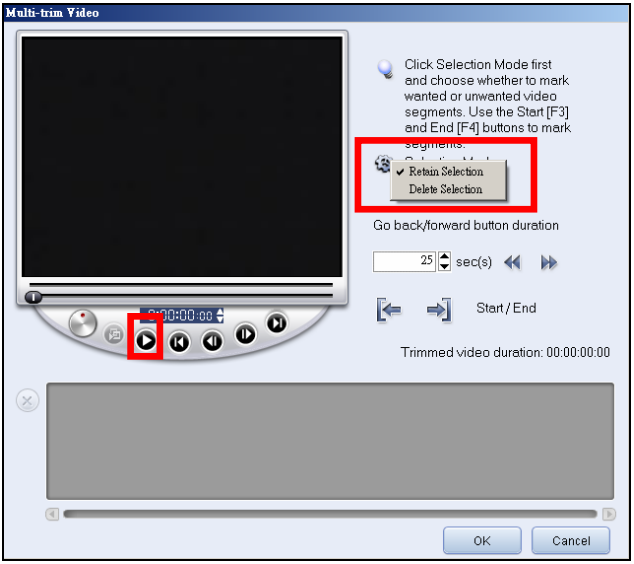


3. Drag the Jog Bar to the point in the clip that you want to set as the start/end of the clip then click .(Mark-in/Mark-out).

Trimming a Video into Multiple Clips

1. Click **Multi-trim Video** on the Options Panel.
2. In the **Multi-trim Video** dialog box, view the whole clip first by clicking to determine how you want to mark segments. If you want to mark segments to retain, click **Selection Mode** then select **Retain selection**.

   Otherwise, select **Delete selection** if you prefer to mark segments that you want taken out from the clip.



3. Drag the Jog Bar until you locate the point in the video that you want to use as the beginning frame of the first segment. Click (Start).

   Drag the Jog Bar again, this time, to the point where you want the segment to end. Click (End).

4. Repeat step 3 as required until you have marked all the segments you want kept or removed.

5. Click **OK** when finished. The video segments that you kept are then inserted onto the Media Clip List.

Multi-Trim Video Control

Control Button	Description
/	Reverses or advances through the video in fixed increments. By default, these buttons move up or down through the video in increments of 25 seconds. To change this, tap the up or down arrow to adjust the value.
	Click and hold to open the speed bar. Select a speed and hold it there to quickly reverse or advance through the video.
	Plays the trimmed segments.
	Plays the whole video.
/	Moves to the start or end frame of a trimmed segment.
/	Moves to the previous/next frame in the video.

13.6 Creating an Image Slideshow

You can create a video slideshow using your images. To create, click (Insert Image) and, in the dialog box, select the images (press **Ctrl** or **Shift** to select multiple files) you want to include in the slideshow and click **Open**. The duration of each image can be set in the Preferences dialog box.

Use the rotate buttons to change the orientation of the selected image.

Rearrange the clips in the Media Clip List by dragging and dropping the clip to the desired position.

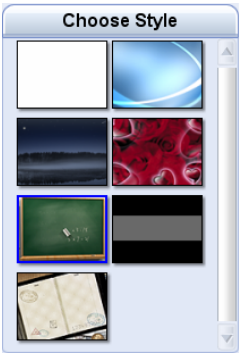
13.7 Choosing a Style

A style refers to a set of attributes including beginning/ending clips, transition effects, and background music.

Selecting a Movie Style

In the Options Panel, click the style you want to use.

A beginning clip and an ending clip in the selected style will be added to your project.

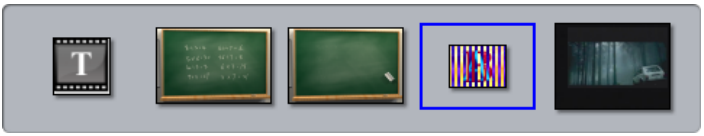


Changing the Transition Effect

With multiple video clips or image files in the Media Clip List, default transition effects are applied to the project according to the style selected.

To change the transition effect

1. In the Media Clip List, click the transition effect you want to change.

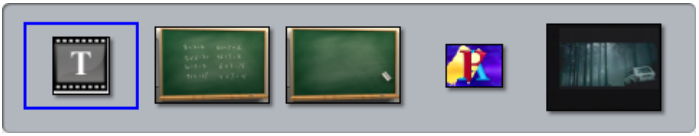


2. In the Options Panel, select a transition effect from the drop-down menu.

> **NOTE:** You can click **Delete All** to remove all transition effects in the Media Clip List.

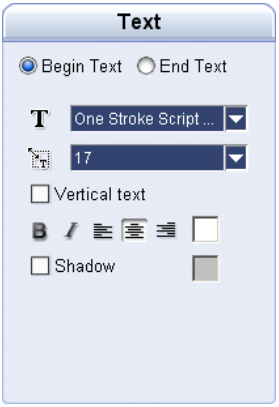
Editing Text

1. In the Media Clip List, click the beginning or ending text you want to edit.



2. In the Preview Window, double-click the text box to edit the text. Click an empty space in the Preview Window when you are done editing the text.

3. Adjust the text attributes using the settings in the Options Panel.

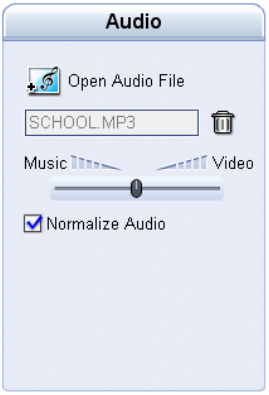


- **Font face** Select your desired font style.
- **Font size** Set your desired font size.
- **Vertical text** Make the orientation of the title vertical.
- **Font style** Set the text as bold, italic and/or underlined.
- **Alignment** Align horizontal text to the left, center, or right. Or, aligns vertical text to the top, center, or bottom.
- **Color** Specify your preferred font color.
- **Shadow** Select to add a shadow to the text. Click the color box to change the shadow color.

Change the Background Music

1. Click the button.
2. In the Options Panel, click **Open Audio File**. In the dialog box, locate the audio file you want to use for your background music and click **Open**.

> **NOTE:** You can click to remove the background music from the project.



3. Use the Volume slider to adjust the volume of the background music with respect to the video's audio. Dragging the slider to the left increases the volume of the background music and decreases the volume of the video's audio.
4. Select **Normalize Audio** to automatically adjust the volume to a standard level. This is useful when the background music used is recorded at varying volume levels.

14 POI Loader

14.1 Installing POI Loader

POI Loader allows you to import additional POI (Point of Interest) data to an SD card for the MioMap program to use. When MioMap starts, it will load the POI data from the SD card and show the additional locations in the **My POI** category of the **POI** function. (See MioMap manual for information on POIs.)

1. Turn on your computer and insert the supplied CD/DVD into the CD/DVD-ROM drive of your computer.
2. When the language selecting screen appears, click the language that you wish to install from.
3. Click **Install POI Loader.**
4. Click **Next**. Follow the onscreen instructions to complete the installation.

14.2 Preparing the Source Files

The source files can be .xls or .csv files. The file must contain the following data:

- Longitude
- Latitude
- Name

The “Longitude” and “Latitude” fields are numerical values of the WGS84 system. The letter N/S/E/W before the value indicates the hemisphere North/South/East/West. If the letters are omitted, the program will simply match the values to your location of hemisphere (where you purchased your device).

In the “Name” field, give the location a name. If it is a location of speed camera, use the format *Name@Speed*, where *Speed* is the speed limit. Note that the unit of speed limit must be the same as the default unit of MioMap.

Excel File Format Example

Enter longitude in the first column, latitude in the second column, and name in the third column. Shown below is an example.

	A	B	C
1	E4.2565993	N50.931152	Hometown
2	E4.3892	N50.9311	Speed Camera@50
3			

CSV File Format Example

You can use a text editor or spreadsheet program that supports the CSV (Comma Separated Value) file format to enter the data. In a CSV file, fields/columns are separated by the comma character and records/rows separated by newlines. Shown below is an example.

```
E4.2565993,N50.931152,Hometown
E4.3892,N50.9311,Speed Camera@50
```

14.3 Importing POIs

> **NOTE:** When importing .xls files, make sure that your computer has Microsoft Excel installed.

1. Have the .xls or .csv files ready on your computer. (See section 14.2 for the file structure.)
2. Prepare an SD card. This is where the POIs will be imported to.

   Insert the SD card to your device and connect your device to your computer.

   Alternatively, if you have a card reader, you can insert the SD card to the card reader and connect the card reader to your computer.
3. Click the **POI Loader** shortcut on the Windows desktop.

4. Click **Next**.

5. Select the drive name representing the SD card. The pull-down menu lists all the available removable disk(s) connected to your computer. Make sure that you select the correct one. You should not select **Mio Device**, which means the internal memory of your device.

   In case you connect the device or card reader after POI Loader starts, you can click **Search** to refresh the list.

6. Click **Browse** to select the folder containing the source files.

   NOTE: You can only specify the folder, not the file. All valid files in the selected folder will be loaded.

7. Click **Next**.
8. When completed, a message appears telling you the total number of files that have been imported. Click **Finish**.

> **CAUTION:** Before disconnecting the cable, you must click the device icon in the task bar and click "Safely remove *xxx*" (where *xxx* is the name of your device). If you are transferring data, disconnecting the cable without following the correct removal procedure can result in data loss.

Using the Imported POIs with Your Device

Every time you want to use your POIs, you must insert the SD card before running MioMap. MioMap will load the data from the SD card and refresh the POIs.

> **NOTE:**
> - Inserting the SD card after MioMap is started does not make the program load the data.
> - Such POIs will not be saved to your device after you exit MioMap.

15 Troubleshooting and Maintenance

15.1 Restart and Shut Down

Occasionally, you may need to reset your device. For example, you should reset your system when it stops responding; or appears to be “frozen” or “locked up.”

Restarting Your Device

To restart your device, press the power button for 5 seconds until the “Power Off Selection” screen appears and then tap **Restart**.

Shutting Down Your Device

To shut down your device, press the power button for 5 seconds until the “Power Off Selection” screen appears and then tap **Shutdown**.

Alternatively, you can press the power button for 10 seconds to directly shut down the device. This is useful when a software failure prevents the “Power Off Selection” screen from displaying.

The device will close all running programs before shutting down. To use the device again, press the power button for 5 seconds. The Home screen appears.

15.2 Troubleshooting

> **NOTE:** If you encounter a problem you cannot solve, contact an authorized service center for assistance.

Power Problems

Power does not turn on when using battery power

- The remaining battery power may be too low to run your device. Charge the battery.

Screen Problems

Screen responds slowly

- Make sure that your device is not running out of battery power. If the problem still exists, reset your system.

Screen freezes

- Reset your system.

Screen is hard to read

- Make sure that the backlight of the display is on.
- Move to a location with more light.

Inaccurate response to taps

- Recalibrate the touch screen.

Connection Problems

Cable Connection Problems

- Make sure that your device and your computer are both turned on before trying to establish a connection.
- Make sure that the cable is securely plugged into the USB port on your computer and on the device. Connect the USB cable directly to your computer—do not run the cable through a USB hub.

- Reset your device before connecting the cable. Always disconnect your device before you restart your computer.

GPS Problems

When there are no valid signals available, consider the following:

- Make sure that the device is facing a clear view of the sky.
- Note that the GPS reception can be affected by:
  - ✓ Bad weather
  - ✓ Dense overhead obstacles (e.g. trees and tall buildings)
  - ✓ Other wireless device in the car
  - ✓ Reflective car window tint and heated screens.

15.3 Maintaining Your Device

Taking good care of your device will ensure trouble-free operation and reduce the risk of damage to your device.

- Keep your device away from excessive moisture and extreme temperatures.
- Avoid exposing your device to direct sunlight or strong ultraviolet light for extended periods of time.
- Do not place anything on top of your device or drop objects on your device.
- Do not drop your device or subject it to severe shock.
- Do not subject your device to sudden and severe temperature changes. This could cause moisture condensation inside the unit, which could damage your device. In the event of moisture condensation, allow the device to dry out completely before use.
- Take care not to sit on the device. We advise not to carry the device in one's back pocket for that reason.
- The screen surface can easily be scratched. Avoid touching it with sharp objects. Non-adhesive generic screen protectors designed specifically for use on portable devices with LCD panels may be used to help protect the screen from minor scratches.
- Never clean your device with it powered on. Use a soft, lint-free cloth to wipe the screen and the exterior of your device.

- Do not use paper towels to clean the screen.
- Never attempt to disassemble, repair or make any modifications to your device. Disassembly, modification or any attempt at repair could cause damage to your device and even bodily injury or property damage and will void any warranty.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as your device, its parts or accessories.

16 Regulatory Information

NOTE: Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.

16.1 Regulations Statements

Class B Regulations

USA
Federal Communications Commission Radio Frequency Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Please note:

The use of a non-shielded interface cable with this equipment is prohibited.

FCC RF Radiation Exposure Statement

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting antenna during transmitting.
3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Canada
Canadian Department of Communications
Radio Interference Regulations Class B Compliance Notice

This Class B digital apparatus meets all requirements of the Canada Interference-Causing equipment regulations.

Cet appareil numérique de Classe B respecte toutes les exigences du Règlement Canadien sur le matériel brouileur.

Bluetooth

Bluetooth QD ID B012565

16.2 Safety Precautions

- Prolonged listening of music in maximum volume can damage the ears.
- The use of headphones other than those recommended/supplied can cause hearing impairment due to excessive sound pressure.

About Charging

- Use only the charger supplied with your device. Use of another type will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with “LPS”, “Limited Power Source” and output rated + 5 V dc / 1.0 A”.
- Use a specified charger approved by the manufacturer.

About the AC Adapter

- Do not use the adapter in a high moisture environment. Never touch the adapter when your hands or feet are wet.
- Allow adequate ventilation around the adapter when using it to operate the device or charge the battery. Do not cover the AC adapter with paper or other objects that will reduce cooling. Do not use the AC adapter while it is inside a carrying case.
- Connect the adapter to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the adapter if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the Battery

- Use a specified battery in the equipment.

  CAUTION: This unit contains a non-replaceable internal Lithium Ion battery. The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.

- Important instructions (for service personnel only)
  - ✓ **Caution:** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
  - ✓ Replace only with the same or equivalent type recommended by the manufacturer.
  - ✓ The battery must be recycled or disposed of properly.
  - ✓ Use the battery only in the specified equipment.